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### SPECIAL NOTICE-

The Energy Information Administration (EIA) is undertaking a program to make the dates of its periodicals consistent and explicit. Beginning in January 1984, issues of all EIA periodicals will be dated according to the bulk of the data in them, NOT (as in the past) the date of publication. The data date will be displayed prominently on covers, title pages, and spines. The publication date will be less prominently displayed.

Some monthly periodicals will have to have more than one December issue (designated December 1983 [1], December 1983 [2], etc.). Once the bulk of the data in these periodicals is vintage January 1984, the periodical will be dated January 1984. In the case of the Monthly Energy Review, for example, there will be three "December 1983" issues; the January 1984 issue will be published in April. Other monthly periodicals will follow similar procedures.

# Petroleum Supply Monthly

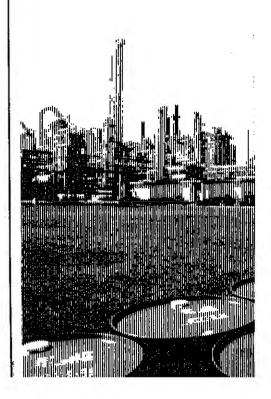


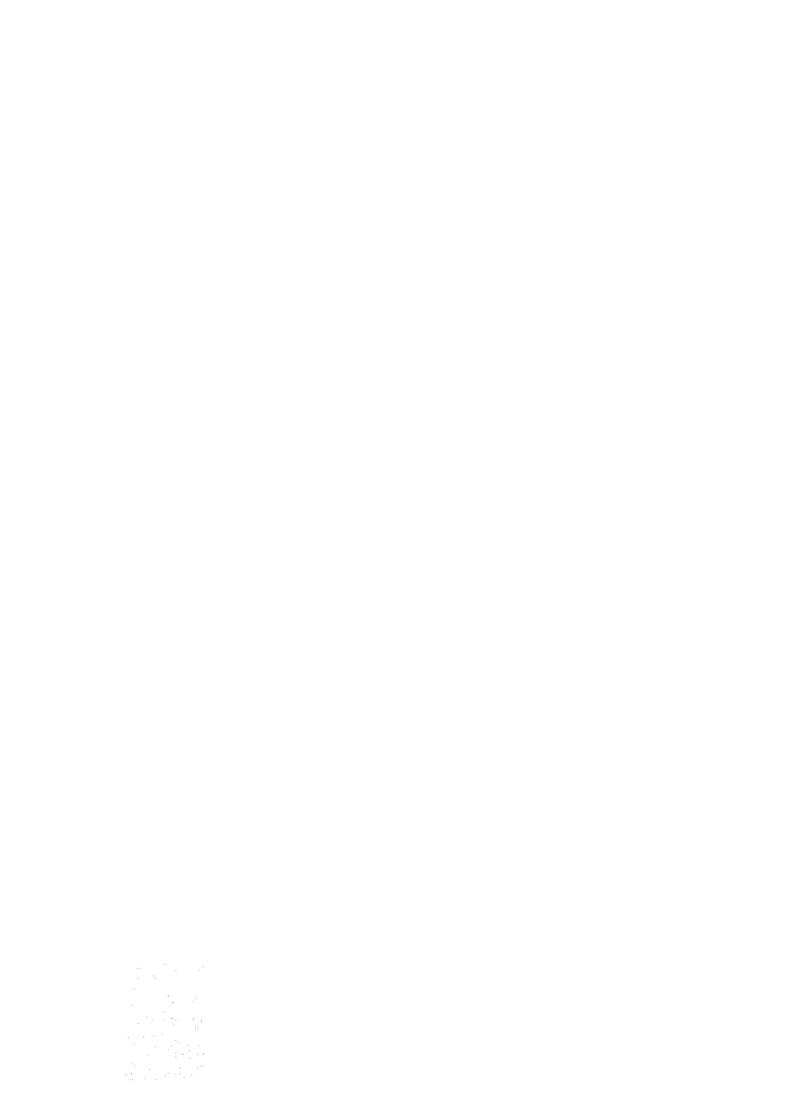
December 1983 [2]

November 1983 data published January 1984

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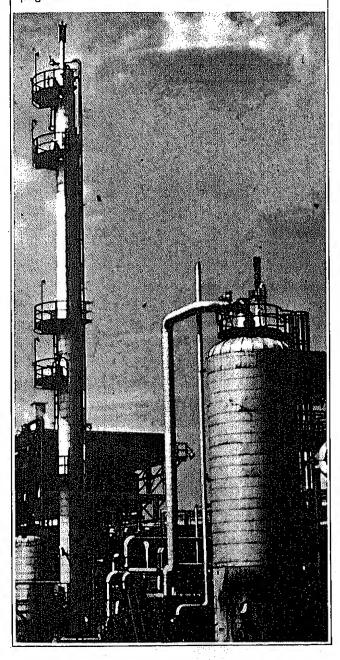




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### This Month in the PSM

This issue of the Petroleum Supply Monthly focuses on petroleum developments over the past year. "U.S. Petroleum Developments: 1983," beginning on page ix, summarizes changes in consumption, refinery operations, petroleum stocks, imports, exports, and prices. The article also includes information on crude oil production and drilling activity. A special "Update on Refinery Closings" appears on page xi, and a supplemental summary of developments related to the Strategic Petroleum Reserve appears on page xii. A third insert illustrating the downward trend in petroleum imports since 1979 is found on page xiii.



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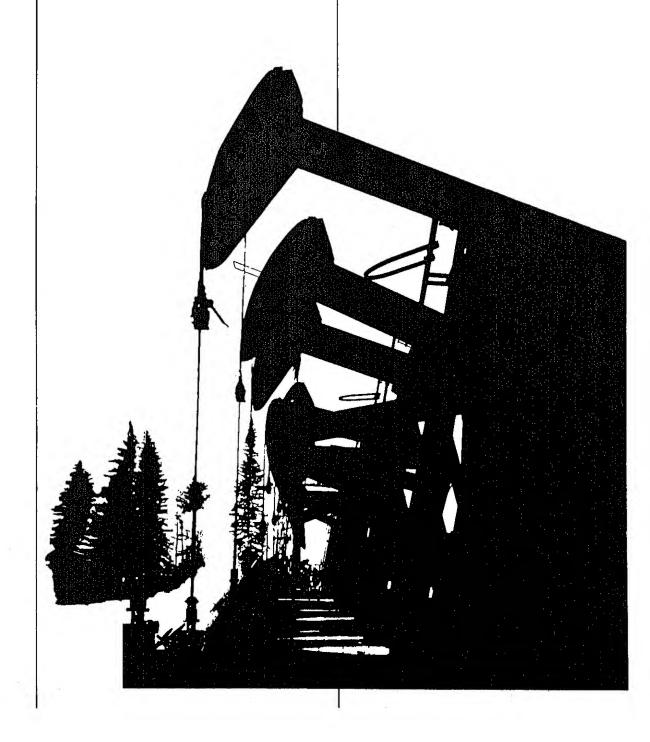
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# Petroleum Focus



## Petroleum Supply Summary

		December		C	umulative Jar hrough Decer	nuary nber
Average Volume for Period (Million Barrels Per Day)	1983	1982	% Change	1983	1982	% Change
Products Supplied			J.1.4.1.90	,,,,,		Ollarigo
Motor Gasoline	6.6	6.5	1.0	6.6	6.5	0.9
Distillate Fuel Oil	3.3	2.9	13.8	2.7	2.7	0.5
Residual Fuel OII	1.4	1.6	– 13.1	1.4	1.7	
Other Products						- 19.1
Total	4.3	4.5	- 3.4	4.4	4.4	1.4
iotai	15.6	15.5	0.6	15.1	15.3	- 1.3
Crude Inputs to Refineries	11.4	11.5	- 1.0	11.7	11.8	- 0.7
Production						
Crude Oil, Natural Gas						
Liquids, and Other	10.3	10.3	0.2	10.3	10.3	0.3
Imports						
Crude OII <sup>2</sup>	3.1	2.9	8,8	3.1	3.3	- 7.4
SPR	0.3	0.1	117.7	0.2	0.2	45.5
Products	1.5	1.6	- 3.8	1.7	1.6	2.6
Total						
iotai	4.9	4.6	7.3	5.0	5.1	- 2.5
Exports						
Crude Oil	0.2	0.2	- 3.6	0.2	0.2	- 27.1
Products	0.5	0.7	- 25.9	0.6	0.6	<b>- 1</b> .4
Total	0.7	0.9	- 20.9	0.7	8.0	- 8.8
Stock Withdrawal						
Crude Oll <sup>2</sup>	(s)	0.3		(s)	(s)	
Products	0.8	0.7		0.1	0.3	_
Stocks at End of Period						
(Million Barrels)		·····	. —			
Crude Oil	070		00.0			
SPR	378	294	28.8			
Other	349	350	NM			
Total	727	644	NM			
Products						
Motor Gasoline <sup>3</sup>	228	235	NM			
Distillate Fuel Oil	144	179	NM			
Residual Fuel OII	48	66	NM			
Other	331	306	NM			
Total	751	786	NM			
Total Crude Oil and Products	1,479	1,430	NM			

<sup>1</sup> Includes alcohol and other hydrocarbon liquids.

<sup>2</sup> Excludes Strategic Petroleum Reserve (SPR).
3 Including blending components.
NM = Not meaningful due to new stock basis.
(s) = Less than 0.05 million barrels per day.
NOTE: Percent changes are based on unrounded values. December 1983 data are estimates based on weekly data, except for exports and NGL production estimates which are November 1983 monthly values. Totals may not be equal to sum of components due to independent rounding. to sum of components due to independent rounding.
Source: Energy Information Administration, Petroleum Supply Monthly, January 1984.



# U.S. Petroleum Developments: 1983

Petroleum developments in 1983 continued to be characterized by declines in many areas, with modest upturns in others:

- Total 1983 petroleum consumption was below the 1982 level despite an upturn in consumption in the second half of 1983.
- Refinery capacity continued to decline, which in turn was reflected in higher utilization rates.
- Net imports of crude oil continued to fall.
- Crude oil acquisition costs and refined product retail prices fell.
- The number of rotary rigs in operation reversed its steep downward trend.
- Motor gasoline consumption increased slightly, reversing last year's decline.

### **Petroleum Consumption**

During 1983, petroleum consumption in the United States (measured as products supplied for domestic use) declined for the fifth consecutive year despite an upturn in this series in the second half of 1983 (see Figure 1). Consumption averaged 15.1 million barrels per day, about 1 percent below consumption in 1982 and 20 percent less than in 1978, the peak demand year. During the second half of 1983, however, petroleum consumption averaged 15.3 million barrels per day compared with 14.9 million barrels per day in the first half of the year. Continued price decreases, as well as a strengthening of the economy starting in the third quarter of 1983, contributed to the modest upturn in consumption In the second half of the year.

Despite overall declines in consumption, petroleum remained the principal source of energy in the United States. About 43 percent of total U.S. energy consumption was accounted for by petroleum, nearly the same as in 1982 (see Figure 2). Petroleum's share of the energy market has declined, however, since 1978, when it reached a peak of 49 percent. This continued decline is the result of conservation efforts and fuel switching that stemmed from the rapid escalation of petroleum prices during the 1970's.

Figure 1. Petroleum Summary

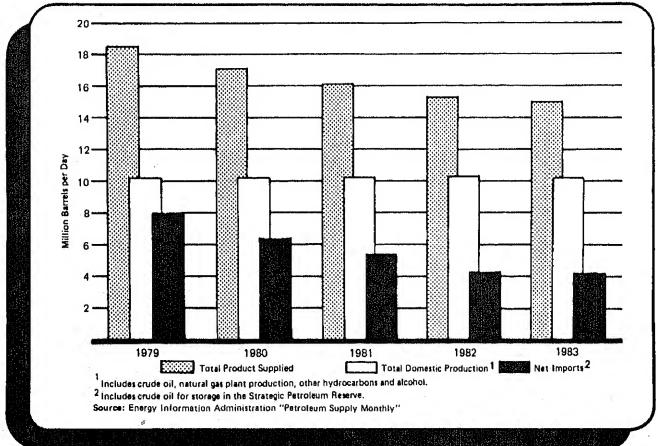
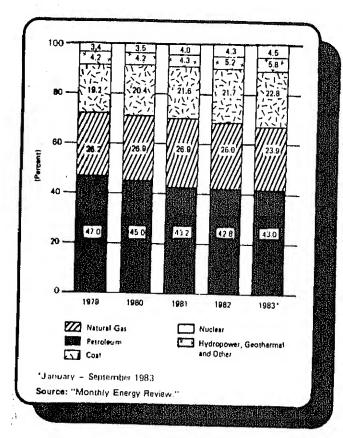


Figure 2. Consumption of Energy by Type



Finished motor gasoline supplied for domestic use increased slightly during 1983, averaging 6.6 million barrels per day compared with 6.5 million barrels per day in 1982 (see page 11). Consumption showed substantial gains beginning in June, averaging 6.7 million barrels for the period June through December. Despite seasonal variations and the effects of higher gasoline taxes, gasoline prices continued to subside in 1983 from their 1981 highs. While lower prices were evident in both 1982 and 1983, consumption did not begin to increase until 1983 when the economy began to improve.

Distillate fuel oil consumption, which averaged 2.7 million barrels per day in 1983, showed almost no change over the 1982 average (see page 13). However, consumption during the second half of 1983 was about 9 percent higher than in the second half of 1982. The increase was associated with a strengthening of the economy.

Consumption of residual fuel oil continued the steady decline that started in 1978 when consumption averaged 3.0 million barrels per day. In 1983, residual fuel oil consumption averaged 1.4 million barrels per day, about 19 percent below the 1982 average (see page 15). Following the mild winter of 1982-1983, consumption remained considerably below historical levels, despite signs of economic recovery in the second half of 1983.

Fuel switching by electric utilities, the largest consumers of residual fuel oil, contributed to the decline in residual fuel oil consumption. Although the cost of generating electricity for utilities burning residual fuel oil declined in 1982 and the first half of 1983, it was still significantly higher than the cost of burning coal and natural gas.<sup>12</sup>

### **Refinery Operations**

The daily average total operable crude oil distillation capacity of petroleum refineries in the United States decreased by about 500 thousand barrels during 1983. This was the result of refinery closures and partial shutdowns as refiners continued to eliminate excess capacity and uneconomic facilities (see insert, next page). Many refiners also upgraded their downstream facilities in order to improve their ability to produce lighter products such as gasoline. Refinery utilization rates, which were persistently low through 1981 and 1982, increased throughout most of 1983. During September 1983, refiners operated at over 76 percent capacity, the highest level of utilization observed since June 1980. This was the result of increased inputs and significant refinery closings reported for that month. Crude oil inputs to refineries averaged 11.7 million barrels per day during the year, less than 1 percent below the 1982 average (see page 7).

### **Petroleum Stocks**

Total petroleum stocks, excluding the Strategic Petroleum Reserve (SPR), decreased by about 67 million barrels during 1983, compared to the 1982 decline of 117 million barrels. About 66 million barrels of the 1983, decrease was in inventories of refined products. Total crude oil stocks (excluding SPR) declined slightly from 350 million barrels at the end of 1982 to 349 million barrels at the end of 1983 (see page 7). Crude oil stocks held in the Strategic Petroleum Reserve exceeded privately held crude oil stocks for the first time in the 7 years of SPR's existence (see insert, page xii).

At the end of 1983, stock levels of most major products were below the levels at the end of 1982. Distillate fuel oll inventories at 144 million barrels, were 23 percent below the level at the end of 1982; residual fuel oil inventories, at 48 million barrels, were 29 percent below the level at the end of 1982; motor gasoline inventories at 228 million barrels, were about 7 percent below the level at the end of 1982 (see pages 11-15). Although stocks have continued to decrease, supplies of petroleum products were adequate to meet demand given excess refining capacity, secure crude oil supplies and the availability of product imports.

Energy Information Administration, Cost and Quality of Fuels for Electric Utility Plants, DOE/EIA-0191(82) (Washington, D.C.: 1983), pp. 10, 14, 16.

<sup>&</sup>lt;sup>2</sup>Energy Information Administration, *Electric Power Quarterly*, DOE/EIA-0397(83/1Q and 2Q) (Washington, D.C.: 1983), pp. 10, 20.

<sup>&</sup>lt;sup>3</sup>See Glossary, this issue, p. 62.

The continued decline in stock levels reflects structural changes in the petroleum industry. These changes have been in response to declining demand levels and product prices, increased raw material and operating costs, and other factors which have caused an increase in the cost of storing products.

As a result of Industry changes in inventory management, the National Petroleum Council (NPC), at the request of the Secretary of Energy, conducted a study and developed new estimates for Minimum Operating Inventory (MOI) levels for crude oil and major fuel products. The MOI is defined as the Inventory level below

which operating problems and shortages would begin to appear in a defined distribution system. The NPC revised the estimated MOI level for crude oil downward, from 290 million barrels to 285 million barrels. The motor gasoline MOI was also revised downward from 210 million barrels to 200 million barrels. The MOI for distillate fuel oil was reduced from 125 million barrels to 105 million barrels. The residual fuel oil MOI was lowered from 60 million barrels to 40 million barrels. A detailed discussion of the NPC study and changes to the MOI's is provided in the feature article of the December 1983 Issue of the Petroleum Supply Monthly.

### **Update on Refinery Closings**

As reported in the 1982 "Petroleum Supply Annual," there were 258 operable refineries in the United States on January 1, 1983. Since that time, the 11 refineries listed below, with a combined operable crude distillation capacity of more than 500,000 barrels per calendar day and total downstream capacity of more than 600,000 barrels per stream day, have been shut down. These data reflect closings through October 31, 1983. The Energy Information Administration anticipates additional refinery closings by the end of 1983, resulting in the further loss of nearly 75,000 barrels per calendar day of crude distillation capacity and approximately 70,000 barrels per stream day of downstream capacity. New construction and modifications at existing facilities, and resumed operations at refineries previously shut down, are expected to only partially offset the effects of these closings.

### Refinery Closings Since January 1, 1983

Refiner	Location	Crude Oil Distillation Capacity	Downstream Capacity	Years in Operation
Anchor Refining Co., Inc.	McKittrick, California	9,000	7,000	5
Arizona Fuels Corp.	Fredonia, Arizona	6,000	Burtle danks	11
Demenno-Kerdoon	Compton, California	10,000	2,000	6
Erickson Refining Corp.	Pt. Neches, Texas	30,000	****	4
GHR Energy Corp.	Good Hope, Louisiana	300,000	433,000	15
Independent Refining Corp.	Winnie, Texas	50,000	63,000	23
Marion Corp.	Theodore, Alabama	25,000	14,500	15
McTan Refining Corp.	St. James, Louisiana	19,300		6
Mobil Oil Corp.	Augusta, Kansas	50,000	83,900	25+
Shore, Inc.	Kilgore, Texas	550		3
Silver Eagle Oil, Inc.	La Barge, Wyoming	1,500		9
Total		501,350	603,400	

Source: Energy Information Administration

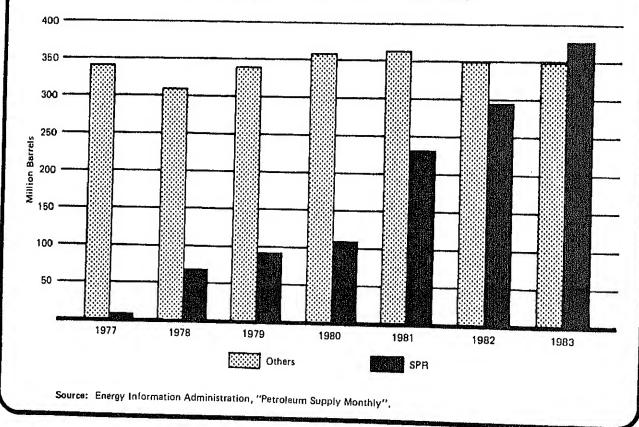
### Strategic Petroleum Reserve

Two milestones occurred in the Strategic Petroleum Reserve (SPR) during the last quarter of 1983. In September SPR crude oil ending stocks reached 361 million barrels, exceeding privately held crude stocks for the first time in the 7 years of SPR's existence. The second event occurred in December when the SPR stocks reached 375 million barrels, the halfway mark of the 750 million barrel goal.

In response to the Arab oil embargo during 1973–1974, Congress passed the Energy Policy and Conservation Act (P.L. 94–163). Included in this legislation was the creation of the Strategic Petroleum Reserve program. With this Act, Congress required a reserve of up to one billion barrels of crude oil and/or petroleum products to be set aside to reduce the impact of any supply disruptions caused by international discords. The reserves can be withdrawn only after the President has determined such an action is necessary.

Currently the drawdown and distribution capability for the SPR is 1.7 million barrels per day. The plans call for an ultimate drawdown and distribution capability of up to 4.5 million barrels per day.

### Year-End Stocks of Crude Oil in the United States



### **Imports**

The downward trend in imports continued during 1983 as net imports (gross imports minus exports) of crude oil and petroleum products fell to an average of 4.2 million barrels per day, 2 percent below the average for 1982. During 1982, net imports averaged 20 percent below the 1981 level. This trend reflects the declining demand for petroleum products in the United States as well as the effort to reduce U.S. dependence on imports. The reduced dependence is most evident in the significant decline in the level of imports from members of the Organization of Petroleum Exporting Countries (OPEC) over the last four years. In 1983, 36 percent of U.S. petroleum imports came from OPEC nations, down from 67 percent in 1979 (see insert, page xiii).

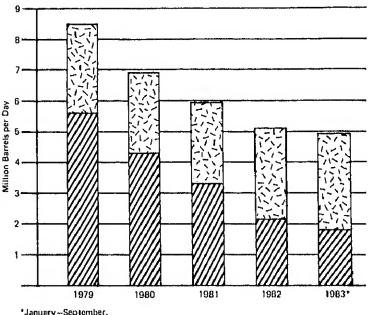
Net crude oil imports declined for the fourth straight year, averaging 3.1 million barrels per day, 3 percent below the 1982 average. Net imports of petroleum products averaged 1.1 million barrels per day in 1983, exhibiting little change from 1982. Although imports of motor gasoline and distillate fuel oil increased significantly, this was partially offset by a decrease in residual fuel oil imports. Residual fuel oil imports decreased from 567,000 barrels per day in 1982 to 494,000 barrels per day in 1983. Motor gasoline imports increased by 37 percent, from 177,000 barrels per day to 242,000 barrels per day, and imports of distillate fuel oil increased fivefold, from 20,000 barrels per day to 100,000 barrels per day. (see pages 11-15).

### U.S. Dependence on Petroleum Imports Declines

Gross U.S. Petroleum Imports, by Source

OPEC Non-OPEC

U.S. imports of petroleum have declined steadily since 1979, reducing U.S. dependence on foreign crude oil and petroleum products. At the same time, there has been a dramatic shift in the sources of U.S. petroleum imports away from members of the Organization of Petroleum Exporting Countries (OPEC) countries. In 1983, 36 percent of U.S. petroleum imports were from OPEC sources, compared with 42 percent in 1982, 55 percent in 1981, 62 percent in 1980, and 67 percent in 1979.



\*January -- September.

Source: Energy Information Administration "Petroleum Supply Monthly"

### **Exports**

Petroleum product exports during 1983 averaged 578,000 barrels per day, representing a slight decline from the 1982 level of 579,000 barrels per day. During the second half of 1983, exports exhibited a substantial downturn, averaging approximately 200,000 barrels per day below the first half of 1983. Although exports of distillate fuel oil and residual fuel oil showed slight decreases for the year, the increases in exports of petroleum coke and ilquefied petroleum gases partially offset these decreases.

### Production

Domestic production of crude oil during 1983 was at its highest level since 1978, averaging 8.7 million barrels per day compared with 8.6 million barrels per day in 1982. Natural gas plant liquids production averaged 1.6 million barrels per day in 1983 about the same as in 1982.

Drilling activity in the United States during 1983 reversed the steep downward trend that began in the early months of 1982. The average number of rigs operating in December 1983 was 2,780 compared with 2,696 in December 1982,4 Well completions In the United States were down in 1983, however. The total number of wells completed during 1983 decreased 11 percent, from 85,802 in 1982 to 76,321 in 1983.5

### Prices

Petroleum prices fell during 1983, for the second straight year, reflecting price decreases for both domestic and imported crude oil. The refiner acquisition cost of domestic crude oil averaged \$28.74 per barrel in November 1983, compared with \$31.57 per barrel a year earlier. The refiner acquisition cost of imported crude oil also decreased, averaging \$28.89 per barrel in November 1983 compared to \$33.09 per barrel in November 1982.6

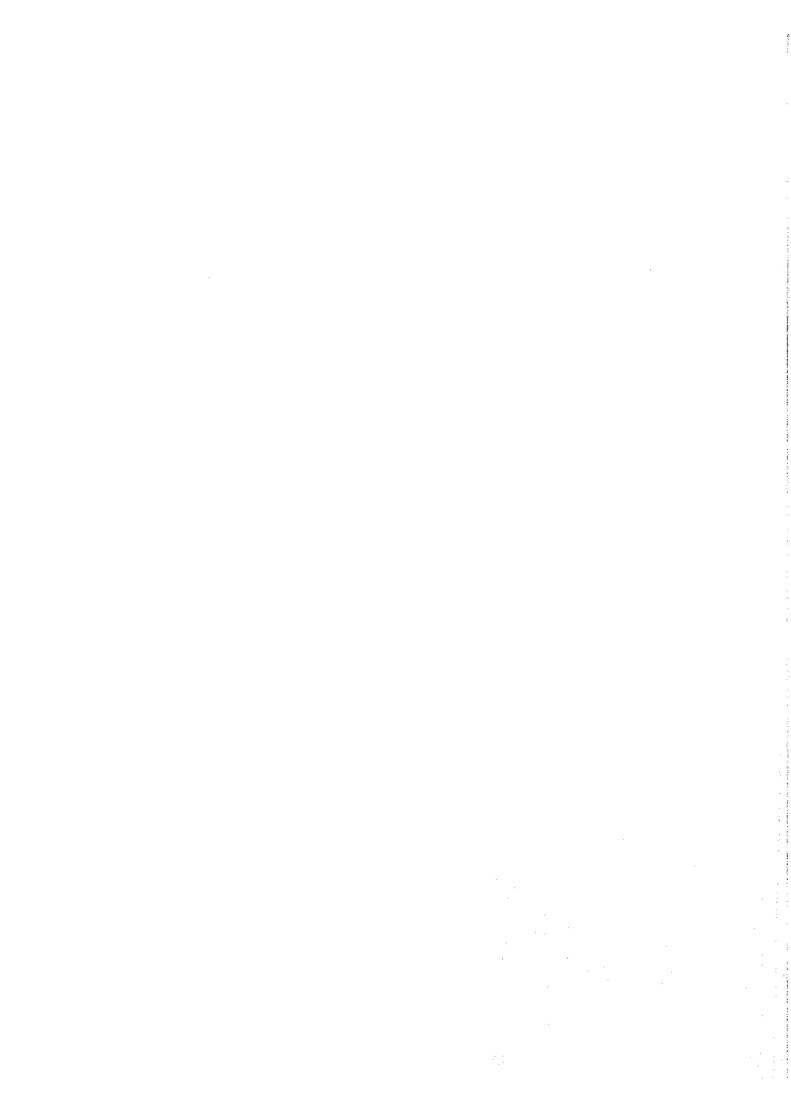
The average retail price of motor gasoline was below 1982 levels throughout most of 1983. In November, motor gasoline prices averaged \$1.22 per gallon, 4 percent below the November average in 1982 and 10 percent lower than the average in November 1981. Retail prices of residential heating oil followed a similar pattern in 1983, dropping from a high of \$1.15 per gallon in January to \$1.06 per gallon in September.7

Average of weekly data reported for the period by Hughes Tool Company, Rotary Rigs Running-By State, (Houston, Texas: November 1982 - December 1983).

American Petroleum Institute, Report on Drilling Activity In the United States, (Washington, D.C.: January 1982 - December 1983),

<sup>\*</sup>Energy Information Administration, Weekly Petroleum Status Report, DOE/EIA-0208 (84/03) (Washington, D.C. January 19, 1984), p. 17.

Weekly Petroleum Status Report, p. 17.



# Summary Statistics

1973 AVERAGE 10,975 9,208 1,738 11 -146 17,308 1,008 1974 AVERAGE 10,495 8,774 1,888 -62 -117 16,653 6 1,074 1975 AVERAGE 10,045 8,375 1,833 0-17 0-145 16,322 1,133 1976 AVERAGE 9,774 8,132 1,803 -39 96 17,461 1,112 1977 AVERAGE 10,328 8,707 1,567 -78 172 18,847 1,212 1978 AVERAGE 10,328 8,707 1,567 -78 172 18,847 1,212 1979 AVERAGE 10,228 8,707 1,567 -78 172 18,847 1,212 1980 AVERAGE 10,214 8,597 1,573 -98 -42 17,056 6 1,392 1981 January 10,231 8,540 1,682 8 50 8 1,159 18,430 1,398 March 10,272 8,613 1,624 -632 224 16,989 1,398 March 10,272 8,613 1,624 -632 224 16,989 1,399 May 10,160 8,501 1,593 -595 148 15,350 1,415 May 10,088 8,500 1,584 -336 406 16,095 1,430 July 10,088 8,500 1,584 -369 99 15,263 1,457 November 10,281 8,604 1,612 -285 -341 15,665 1,476 November 10,282 8,688 1,599 -290 130 16,088  1982 January 10,128 8,509 1,578 -401 1,298 16,124 1,456 November 10,280 8,588 1,590 -170 745 16,595 1,498 March 10,220 8,588 1,590 -270 1,570 1,583 16,046 AVERAGE 10,210 8,500 1,584 -285 -341 15,655 1,476 November 10,280 8,588 1,590 -170 745 16,596 1,499  1982 January 10,128 8,509 1,578 -401 1,298 16,124 1,456 April 10,188 8,509 1,578 -401 1,298 16,124 1,456 April 10,284 8,687 1,572 121 1,047 1,5605 1,489  May 10,160 8,501 1,518 29 -990 130 16,088  1982 January 10,128 8,509 1,578 -401 1,298 16,124 1,456 April 10,284 8,685 1,590 -170 745 16,596 1,494 April 10,284 8,687 1,572 121 1,047 1,5605 1,494 April 10,284 8,686 1,593 -242 1,230 16,001 1,428 April 10,284 8,686 1,593 -242 1,230 16,001 1,428 April 10,284 8,687 1,572 121 1,047 1,5605 1,494 April 10,284 8,687 1,572 121 1,047 1,5605 1,494 April 10,284 8,686 1,593 -242 1,230 16,001 1,428 April 10,284 8,686 1,593 -242 1,293 16,004 1,393 April 10,188 8,591 1,590 -398 -361 1,500 1,430 April 10,284 8,686 1,593 -442 1,290 16,001 1,428 April 10,284 8,686 1,593 -442 1,293 16,004 1,				Field Producti	on	Stock V	Vithdrawal <sup>2</sup>		Ending Stocks <sup>3</sup>
1973 AVERAGE 10,975 9,208 1,738 11 -146 17,308 1,008 1974 AVERAGE 10,495 8,774 1,888 -62 -117 16,653 1,073 1975 AVERAGE 10,495 8,774 1,688 -62 -117 16,653 1,073 1976 AVERAGE 10,045 8,375 1,683 -17 -145 16,322 1,133 1976 AVERAGE 9,774 8,132 1,603 -39 96 17,461 1,132 1978 AVERAGE 10,328 8,707 1,567 -78 172 18,447 1,312 1978 AVERAGE 10,328 8,707 1,567 -78 172 18,447 1,312 1979 AVERAGE 10,214 8,597 1,573 -98 -42 17,056 0,392 1,392 1981 January 10,231 8,540 1,682 8 50 8 1,159 16,430 1,392 1981 January 10,241 8,697 1,575 -78 22 224 15,907 1,401 May 10,160 8,501 1,593 -391 374 15,355 1,445 July 10,088 8,590 1,584 -138 406 16,005 1,439 July 10,088 8,590 1,584 -386 91 15,682 1,439 July 10,084 8,500 1,584 -386 91 15,682 1,439 July 10,084 8,500 1,584 -386 91 15,682 1,439 September 10,241 8,694 1,612 -285 -341 15,665 1,476 November 10,225 8,583 1,684 -386 91 15,686 1,439 September 10,285 8,583 1,684 -386 91 15,665 1,476 November 10,220 8,585 1,580 -252 -323 15,593 1,591 AVERAGE 10,230 8,572 1,609 -290 130 16,068 1,430 1,438 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,438 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,438 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,609 -290 130 16,068 1,430 1,436 Average 10,230 8,572 1,563 -242 1,230 16,001 1,428 Average 10,230 8,586 1,580 -760 Average 14,444 1,489 1,496 1,444 1,447 1,			1		Gas Plant			Products	Oil <sup>5</sup> and Petroleum
1975 AVERAGE 10,498 8,774 1,688 -e2 -117 16,683 0 1,074 1976 AVERAGE 10,045 8,375 1,633 8-17 0-145 16,822 1,133 1978 AVERAGE 9,774 8,132 1,603 8-97 96 17,461 1,112 1978 AVERAGE 9,714 8,132 1,603 9-99 96 17,461 1,131 1978 AVERAGE 10,232 8,707 1,587 -78 172 18,847 1,278 1979 AVERAGE 10,214 8,597 1,573 -98 172 18,841 1,312 1980 AVERAGE 10,214 8,597 1,573 -98 -42 17,056 0 1,392 1981 January 10,231 8,540 1,662 6 50 6 1,159 18,430 1,381 February 10,294 8,604 1,653 -278 250 16,999 1,399 March 10,272 8,613 1,624 -632 224 15,907 1,401 April 10,195 8,557 1,599 -595 148 15,350 1,415 June 10,287 8,629 1,594 -135 406 15,353 1,438 June 10,287 8,629 1,594 -135 406 15,353 1,439 August 10,243 8,583 1,614 397 -999 15,283 1,457 October 10,225 8,563 1,593 -285 -233 15,593 1,591 December 10,226 8,563 1,693 -276 277 15,692 1,465 December 10,226 8,563 1,593 -290 130 16,058  1982 January 10,128 8,509 1,576 -401 1,296 16,104 1,486 March 10,226 8,563 1,593 -276 247 15,556 1,465 March 10,226 8,563 1,593 -276 247 15,560 1,493 March 10,226 8,563 1,593 -276 247 15,560 1,493 March 10,228 8,569 1,594 -135 16,696 1,476 April 10,188 8,551 1,593 -929 130 16,001 May 10,188 8,561 1,511 40 -489 14,898 1,360 March 10,226 8,667 1,572 121 1,047 15,560 1,392 March 10,284 8,683 1,518 29 -66 14,847 1,347 July 10,299 8,668 1,513 -147 -489 14,898 1,360 March 10,226 8,667 1,572 121 1,047 15,560 1,392 September 10,229 8,668 1,513 -147 -498 14,898 1,360 March 10,284 8,689 1,518 29 -66 14,847 1,347 July 10,299 8,668 1,513 -147 -489 14,898 1,360 August 10,215 8,844 1,688 -567 8,665 14,765 1,492 March 10,286 8,686 1,513 -147 -489 14,898 1,408 March 10,299 8,697 1,699 -398 -398 1,501 March 10,299 8,697 1,699 -398 1,501 -498 14,898 1,360 March 10,299 8,697 1,699 -398 -398 1,501 March 10,299 8,697 1,699 -398 1,501 -498 14,898 1,360 March 10,299 8,697 1,699 -398 1,501 -498 14,898 1,498 March 10,299 8,686 1,513 -147 -498 14,498 1,497 1,455 March 10,298 8,686 1,598 1,599 -488 14,497 1,455 March 10,299 8,686 1,598 1,599 -488 14,497 1,455 March 10,299 8,686 1,598 1,599					Thousand Ba	arrels per Day			Million Barrels
1975   AVERAGE   10,045   8,375   1,633   6-17   6-145   6,322   1,133   1976   AVERAGE   9,774   8,132   1,603   -39   96   17,461   1,112   1,131   1978   AVERAGE   9,774   8,132   1,603   -39   96   17,461   1,112   1,131   1978   AVERAGE   10,328   8,707   1,567   -78   172   18,847   1,312   1,998   AVERAGE   10,328   8,707   1,567   -78   172   18,847   1,312   1,999   AVERAGE   10,214   8,597   1,573   -98   -42   17,056   8,1332   1,341   1,990   AVERAGE   10,214   8,597   1,573   -98   -42   17,056   8,1392   1,391							-146	17,308	1,008
1916 AVERAGE 9,714 8,375 1,633 9-17 9-145 16,322 1,133 1976 AVERAGE 9,913 8,245 1,618 -170 -378 18,431 1,312 1,3197 AVERAGE 19,328 8,707 1,567 -76 172 18,847 1,278 1979 AVERAGE 10,228 8,707 1,557 -76 172 18,847 1,278 1979 AVERAGE 10,179 8,552 1,584 -148 -25 18,513 1,341 1,312 1,312 1,312 1,312 1,312 1,312 1,312 1,313 1,314 1,312 1,312 1,312 1,313 1,314 1,312 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,312 1,314 1,312 1,314 1,312 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,312 1,314 1,314 1,312 1,314 1,314 1,312 1,314 1,312 1,314 1,314 1,314 1,312 1,314							-117	16,653	
1977   AVERAGE   9,7/4   8,132   1,603   -39   96   17,461   1,112							<sup>8</sup> −145	16,322	
1917 AVERAGE 10,328 8,707 1,567 -78 18,431 1,312 13198 AVERAGE 10,328 8,707 1,567 -78 172 18,847 1,278 1919 AVERAGE 10,179 8,552 1,584 -148 -25 18,513 1,341 1,341 1980 AVERAGE 10,214 8,597 1,573 -98 -42 17,056 8 1,392 1981 January 10,291 8,540 1,652 \$ 50 \$ 1,159 18,430 1,388 1,341						-39	96		
1979   AVERAGE   10,179   8,552   1,564   -148   -25   18,647   1,278   1980   AVERAGE   10,179   8,552   1,553   -98   -42   17,056   8 1,392   1981   January   10,231   8,540   1,652   8 50   8 1,159   18,430   1,388   February   10,294   8,604   1,653   -278   250   16,999   1,399   1,389   1,415					1,618	-170	-378		
1990   AVERAGE   10,174   8,552   1,584   -148   -25   18,513   1,341   1,34				8,707	1,567	-78	172		
1980   AVERAGE   10,214   8,897   1,573   -98   -42   17,056   8 1,392     1981   January   10,231   8,540   1,652   8 50   8 1,159   18,430   1,388     February   10,224   8,604   1,653   -278   250   16,989   1,399     Ayril   10,195   8,557   1,599   -595   148   15,350   1,415     Ayril   10,195   8,557   1,599   -595   148   15,350   1,415     May   10,160   8,501   1,593   -391   -374   15,353   1,438     June   10,287   8,629   1,594   -135   406   18,095   1,430     July   10,998   8,500   1,548   -360   91   1,662   1,439     August   10,243   8,583   1,614   397   -999   15,263   1,457     Cotober   10,285   8,563   1,598   -760   477   15,622   1,485     November   10,220   8,585   1,630   -325   -233   15,593   1,591     AVERAGE   10,230   8,572   1,609   -290   130   16,058      1982   January   10,128   8,509   1,578   -401   1,298   16,124   1,456     April   10,188   8,591   1,542   -37   1,583   16,046   1,346     August   10,244   8,687   1,572   121   1,047   15,550   1,392     April   10,188   8,591   1,542   -37   1,583   16,046   1,346     August   10,229   8,686   1,511   40   -489   14,986   1,360     August   10,215   8,634   1,542   -37   1,583   16,046   1,346     August   10,215   8,636   1,511   40   -489   14,986   1,360     August   10,215   8,636   1,511   40   -489   14,986   1,360     August   10,215   8,636   1,511   40   -489   14,986   1,360     August   10,229   8,668   1,513   -147   -268   14,021   1,393     August   10,229   8,668   1,513   -147   -268   14,021   1,393     August   10,229   8,660   1,585   -382   1,128   14,775     April   10,229   8,660   1,585   -382   1,128   14,775   1,432     December   10,229   8,660   1,585   -382   1,128   14,775   1,432     December   10,229   8,660   1,585   -382   1,128   1,4705   1,430     August   10,256   8,683   1,561   -781   -289   15,366   1,430     August   10,257   8,653   1,650   -781   -289   15,366   1,430     August   10,257   8,653   1,650   -781   -289   15,366   1,4479     Average   NA			10,179	8,552	1,584	-148			
February   10,294	1980 A	VERAGE	10,214	8,597	1,573	-98			
February   10,294			10,231	8,540	1.652	8 50	8 1 150	10 400	
March 10,272 8,613 1,624 -632 224 15,907 1,401 April 10,195 8,557 1,599 -595 148 15,350 1,415 May 10,160 8,551 1,599 -595 148 15,350 1,415 May 10,160 8,551 1,594 -135 406 18,095 1,439 June 10,287 8,629 1,594 -135 406 18,095 1,439 July 10,098 8,500 1,548 -360 91 15,682 1,439 August 10,243 8,583 1,614 397 -999 15,263 1,457 October 10,225 8,663 1,596 -760 477 15,622 1,485 November 10,289 8,568 1,630 -325 -233 15,593 1,501 AVERAGE 10,230 8,572 1,609 -290 130 16,068  1982 January 10,128 8,509 1,578 -401 1,298 16,124 1,456 February 10,312 8,702 1,563 -242 1,230 16,001 1,428 April 10,188 8,591 1,542 -37 1,583 16,046 1,392 April 10,188 8,591 1,542 -37 1,583 16,046 1,392 April 10,188 8,591 1,542 -37 1,583 16,046 1,392 April 10,188 8,591 1,542 -37 1,583 16,046 1,394 June 10,212 8,466 1,511 40 -489 14,998 1,360 June 10,212 8,466 1,511 40 -489 14,998 1,390 August 10,279 8,701 1,518 263 -447 15,022 1,414 November 10,299 8,658 1,513 -147 -926 14,821 1,393 September 10,279 8,701 1,518 263 -447 15,022 1,414 November 10,299 8,658 1,513 -147 -928 14,821 1,393 September 10,279 8,701 1,518 263 -447 15,022 1,414 November 10,359 8,697 1,609 -598 -395 1,596 1,409 June 10,212 8,666 1,511 40 -489 14,998 1,360 August 10,256 8,598 1,628 128 668 15,487 8,149 December 10,259 8,661 1,585 -382 1128 14,705 14,855 AVERAGE 10,252 8,686 1,585 -382 1128 14,705 1,453 June 10,229 8,686 1,585 -382 1128 14,705 1,453 March 10,299 8,660 1,585 -382 1128 14,705 1,453 March 10,259 8,661 1,585 -382 1128 14,705 1,453 March 10,259 8,686 1,586 -1869 -382 1128 14,705 1,453 March 10,259 8,686 1,586 -1869 -382 1128 14,705 1,453 March 10,259 8,686 1,586 -1869 -382 1128 14,705 1,453 Marc	Febr	ruary							
April 10,195 8,557 1,599 -595 148 15,350 1,415 May 10,160 8,501 1,593 -391 -374 15,353 1,438 June 10,287 8,629 1,594 -135 406 16,095 1,490 July 10,098 8,500 1,548 -360 91 15,682 1,439 August 10,243 8,583 1,614 397 -999 15,263 1,457 Cotober 10,225 8,563 1,598 -760 477 15,665 1,476 November 10,289 8,586 1,630 -325 -233 15,593 1,501 AVERAGE 10,220 8,586 1,630 -325 -233 15,593 1,501 AVERAGE 10,280 8,572 1,609 -290 130 16,068 14,884 1,456 1,464 1,456 1,464 1,456 1,464 1,465	Marc	ch							
May 10,160 8,501 1,593 -391 -374 15,353 1,4318 June 10,287 8,629 1,594 -135 406 16,096 1,430 July 10,098 8,500 1,548 -360 91 15,682 1,439 August 10,243 8,583 1,614 397 -999 15,263 1,457 October 10,225 8,663 1,593 -760 477 15,655 1,476 November 10,289 8,586 1,630 -325 -233 15,593 1,501 AVERAGE 10,230 8,572 1,609 -290 130 16,598 1,484  1982 January 10,128 8,509 1,576 -401 1,298 16,124 1,456 Pebruary 10,312 8,702 1,583 -242 1,230 16,001 March 10,284 8,687 1,572 121 1,047 15,560 1,392 May 10,244 8,687 1,572 121 1,047 15,560 1,392 May 10,244 8,683 1,518 29 -66 14,847 1,347 July 10,229 8,658 1,513 -147 -926 14,898 1,380 August 10,215 8,834 1,524 -440 -448 14,839 1,380 August 10,216 8,598 1,609 -398 -361 15,009 1,455 December 10,279 8,701 1,530 -548 -47 15,022 1,414 November 10,299 8,701 1,530 -548 -47 15,022 1,414 November 10,299 8,701 1,530 -548 -47 14,859 1,498 December 10,279 8,694 1,550 -136 283 15,296  January 10,356 8,634 1,550 -382 1,28 685 14,765 1,453 March 10,259 8,660 1,585 -382 1,128 14,772 1,492 December 10,229 8,686 1,502 -388 431 14,772 1,432 April 10,229 8,686 1,502 -388 431 14,772 1,432 April 10,229 8,686 1,502 -388 431 14,772 1,432 April 10,229 8,686 1,502 -388 431 14,772 1,492 April 10,229 8,686 1,502 -438 431 14,779 1,376 March 10,259 8,660 1,585 -382 1,128 14,772 1,492 April 10,229 8,686 1,502 -438 431 14,779 1,376 March 10,229 8,686 1,502 -438 431 14,779 1,376 March 10,229 8,686 1,502 -438 431 14,779 1,376 March 10,229 8,686 1,502 -438 431 14,779 1,376 November 10,323 8,666 1,598 -191 -634 15,596 14,697 December 10,233 8,666 1,598 -191 -634 15,596 14,697 December 10,231 8,666 1,598 -191 -634 15,596 14,697 December 10,310 8,624 1,636 R182 R-128 R15,533 R 1,510 December 10,310 8,624 1,604 -190 -456 14,907 December 10,310 8,624 1,636 R182 R-128 R15,533 R 1,510 Decembe	April	ŀ							
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December   10,220   8,585   1,590   -170   745   16,596   1,484   1,484   10,230   8,572   1,609   -290   130   16,058   1,484   1,484   1,486   1,486   1,4	Nove	ember						15,822	1,485
AVERAGE 10,230 8,572 1,609 -290 130 16,058 1,484  1982 January 10,128 8,509 1,578 -401 1,298 16,124 1,456  February 10,312 8,702 1,563 -242 1,230 16,001 1,428  March 10,284 8,667 1,572 121 1,047 15,560 1,392  April 10,188 8,691 1,542 -37 1,583 16,046 1,346  June 10,212 8,646 1,511 40 -489 14,998 1,347  July 10,229 8,656 1,513 -147 -926 14,821 1,393  September 10,279 8,701 1,518 263 -447 14,839 1,408  October 10,229 8,701 1,530 -548 -47 14,839 1,408  October 10,229 8,701 1,530 -548 -47 14,859 1,432  December 10,276 8,598 1,628 128 688 15,487 8 1,430  AVERAGE 10,252 8,649 1,550 -136 283 15,296  February 10,298 8,660 1,585 -382 1,128 14,772 1,432  April 10,229 8,686 1,502 -438 431 14,779 1,376  April 10,229 8,686 1,502 -438 431 14,779 1,376  April 10,229 8,686 1,502 -438 431 14,779 1,376  June 10,262 8,667 1,514 -163 -242 15,281 1,409  August 10,237 8,657 1,544 56 1,765 15,484 1,375  June 10,262 8,676 1,514 -163 -242 15,281 1,409  August 10,237 8,657 1,544 56 1,765 15,484 1,375  June 10,262 8,676 1,514 -163 -242 15,281 1,409  August 10,257 8,653 1,561 -781 -289 15,366 1,467  October 10,337 8,654 1,664 -180 -456 14,947 1,434  August 10,257 8,653 1,561 -781 -289 15,366 1,467  October 10,317 8,654 1,604 -180 -456 14,947 1,512  December* 10,310 8,624 1,696 R8 2 R -128 R 15,533 R 1,510  AVERAGE NA 8,656 NA -239 838 15,563 1,479								15,593	
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October 10,299 8,701 1,530 -548 -47 14,859 1,414 November 10,359 8,697 1,609 -398 -361 15,009 1,455 December 10,276 8,598 1,628 128 688 15,487 8 1,430  AVERAGE 10,252 8,649 1,550 -136 283 15,296  1983 January 10,356 8,634 1,668 -567 8 865 14,765 1,453 March 10,259 8,677 1,544 56 1,765 15,484 1,375 May 10,229 8,686 1,502 -438 431 14,772 1,432 April 10,229 8,686 1,502 -438 431 14,779 1,376 June 10,262 8,676 1,514 -163 -242 15,281 1,409 August 10,237 8,647 1,536 118 -922 14,913 1,409 August 10,257 8,653 1,561 -781 -289 15,366 1,467 October 10,317 8,654 1,604 -180 -456 14,947 1,512 December* NA 8,652 NA -293 838 15,583 R 1,510 AVERAGE NA 8,656 NA -203 838 R 15,533 R 1,510 AVERAGE NA 8,656 NA -203 838 R 15,533 R 1,510 AVERAGE NA 8,656 NA -233 838 15,583 1,510			10,279						1,408
November 10,359 8,697 1,609 -398 -361 15,009 1,455 AVERAGE 10,252 8,649 1,550 -136 283 15,296  10,356 8,634 1,668 -567 8,665 14,765 1,453  March 10,259 8,677 1,544 56 1,765 15,484 1,375  May 10,231 8,682 1,483 68 -759 14,250 1,397  June 10,262 8,676 1,514 -163 -242 15,281 1,409  August 10,257 8,653 1,561 -781 -289 15,366 1,467  October 10,317 8,664 1,604 -180 -456 14,947 1,512  December* NA 8,662 NA -233 838 15,593 R 1,510  AVERAGE NA 8,656 NA -233 838 15,593 R 1,510  AVERAGE NA 8,656 NA -233 838 15,593 R 1,510  AVERAGE NA 8,656 NA -233 838 15,593 R 1,510  AVERAGE NA 8,656 NA -239 838 15,593 R 1,510	Octob	oet .	10,299						1,414
December 10,276 8,598 1,628 128 688 15,487 8 1,430  1983 January 10,356 8,634 1,668 -567 8 865 14,765 1,453  March 10,259 8,660 1,585 -382 1,128 14,772 1,432  April 10,229 8,686 1,502 -438 431 14,779 1,376  May 10,231 8,682 1,483 68 -759 14,250 1,397  June 10,262 8,676 1,514 -163 -242 15,281 1,409  August 10,237 8,647 1,536 118 -922 14,913 1,434  September 10,323 8,666 1,598 -191 -634 15,396 1,467  October 10,317 8,654 1,604 -180 -456 14,947 1,512  December* NA 8,612 NA -233 838 15,583 R 1,510  AVERAGE NA 8,656 NA -233 838 15,583 R 1,510  AVERAGE NA 8,656 NA -230 838 15,583 R 1,510			10,359						1,432
AVERAGE 10,252 8,649 1,550 -136 688 15,487 8 1,430  1983 January 10,356 8,634 1,668 -567 8 865 14,765 1,453  March 10,259 8,677 1,544 56 1,765 15,484 1,375  May 10,231 8,682 1,483 68 -759 14,250 1,397  June 10,262 8,676 1,514 -163 -242 15,281 1,409  August 10,237 8,654 1,536 118 -922 14,913 1,434  September 10,323 8,666 1,598 -191 -634 15,396 1,492  November* 10,310 8,654 1,604 -180 -456 14,947 1,512  December* NA 8,656 NA -233 838 15,583 R 1,510  AVERAGE NA 8,656 NA -233 838 15,583 R 1,510  AVERAGE NA 8,656 NA -233 838 15,583 R 1,510	Decer	mber	10,276					15,009	
1983   January   10,356   8,634   1,668   -567   8 865   14,765   1,453     February   10,298   8,660   1,585   -382   1,128   14,772   1,432     April   10,229   8,686   1,502   -438   431   14,779   1,375     May   10,231   8,682   1,483   68   -759   14,250   1,397     June   10,262   8,676   1,514   -163   -242   15,281   1,409     August   10,237   8,647   1,536   118   -922   14,913   1,434     September   10,323   8,666   1,598   -191   -634   15,396   1,497     November*   10,310   8,624   1,636   R 182   R -128   R 15,533   R 1,510     AVERAGE   NA   8,656   NA   -233   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -239   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   1,479     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   R 1,510     AVERAGE   NA   8,656   NA   -230   838   15,583   1,479     AVERAGE   NA   -230   838   15,583   1,479     AVERAGE   NA   -230   838   15,583   1	AVE	RAGE							
February 10,298 8,660 1,585 -382 1,128 14,772 1,432 April 10,229 8,686 1,502 -438 431 14,779 1,376 May 10,231 8,682 1,483 68 -759 14,250 1,397 July 10,237 8,676 1,514 -163 -242 15,281 1,409 August 10,257 8,653 1,561 -781 -289 15,366 1,497 October 10,323 8,666 1,598 -191 -634 15,396 1,492 November* 10,310 8,624 1,636 R 182 R -128 R 15,533 R 1,510 December* NA 8,656 NA -233 838 15,583 R 1,510 AVERAGE NA 8,656 NA -233 838 15,583 R 1,510	983 Janua	irv	10.356	0.604	·		203	15,295	
March         10,259         8,680         1,585         -382         1,128         14,772         1,432           April         10,229         8,686         1,502         -438         1,765         15,484         1,375           May         10,231         8,682         1,483         68         -759         14,250         1,376           June         10,262         8,676         1,514         -163         -242         15,281         1,409           July         10,237         8,647         1,536         118         -922         14,913         1,409           August         10,257         8,653         1,561         -781         -289         15,366         1,467           October         10,323         8,666         1,598         -191         -634         15,396         1,492           November*         10,310         8,654         1,604         -180         -456         14,947         1,512           December**         NA         8,612         NA         -233         838         15,593         R 1,510           AVERAGE         NA         8,656         NA         -233         838         15,593         1,479							8 865	14,765	1.450
April         10,229         8,686         1,502         -438         431         14,779         1,375           May         10,231         8,682         1,483         68         -759         14,250         1,397           June         10,262         8,676         1,514         -163         -242         15,281         1,409           July         10,237         8,647         1,536         118         -922         14,913         1,409           August         10,257         8,653         1,561         -781         -289         15,366         1,487           September         10,323         8,666         1,598         -191         -634         15,396         1,487           October         10,317         8,654         1,604         -180         -456         14,947         1,512           December**         NA         8,612         NA         -233         838         15,583         R 1,510           AVERAGE         NA         8,656         NA         -233         838         15,583         1,479						-382			1,400
May 10,231 8,682 1,483 68 -759 14,250 1,376  June 10,262 8,676 1,514 -163 -242 15,281 1,409  August 10,237 8,647 1,536 118 -922 14,913 1,494  September 10,323 8,666 1,598 -191 -634 15,396 1,467  October 10,317 8,654 1,604 -180 -456 14,947 1,512  December* NA 8,612 NA -233 838 15,583 R 1,510  AVERAGE NA 8,656 NA -233 838 15,583 1,479		•				56			1,432
June 10,262 8,676 1,514 -163 -242 15,281 1,409  July 10,237 8,647 1,536 118 -922 14,913 1,409  August 10,257 8,653 1,561 -781 -289 15,366 1,467  October 10,323 8,666 1,598 -191 -634 15,396 1,467  October 10,317 8,654 1,604 -180 -456 14,947 1,512  December* NA 8,612 NA -233 838 15,583 R 1,510  AVERAGE NA 8,656 NA -233 838 15,583 R 1,510						-438			
July 10,237 8,676 1,514 -163 -242 15,281 1,409 August 10,257 8,653 1,561 -781 -289 15,366 1,467 October 10,323 8,666 1,598 -191 -634 15,396 1,492 November* 10,310 8,654 1,604 -180 -456 14,947 1,512 December* NA 8,612 NA -233 838 15,583 R 1,510 AVERAGE NA 8,656 NA -233 838 15,583 R 1,510									
August 10,257 8,653 1,556 118 -922 14,913 1,409 September 10,323 8,666 1,598 -191 -634 15,396 1,492 November* 10,317 8,654 1,604 -180 -456 14,947 1,512 December** NA 8,612 NA -233 838 15,593 R 1,510 AVERAGE NA 8,656 NA -233 838 15,583 R 1,510									
September 10,323 8,653 1,561 -781 -289 15,366 1,467 October 10,317 8,654 1,604 -180 -456 14,947 1,512 December* NA 8,612 NA -233 838 15,593 R 1,510 AVERAGE NA 8,656 NA -233 838 15,583 R 1,479		t							
October 10,317 8,666 1,598 -191 -634 15,396 1,492 November* 10,310 8,624 1,636 R 182 R -128 R 15,533 R 1,510  AVERAGE NA 8,656 NA -233 838 15,583 R 1,479									
November* 10,310 8,624 1,636 R 182 R -128 R 15,533 R 1,510  AVERAGE NA 8,656 NA -233 838 15,583 1,479									
December** NA 8,612 NA -233 838 15,533 R 1,510  AVERAGE NA 8,656 NA -200 838 15,583 1,479					1,604				
AVERAGE NA 8,612 NA -233 838 15,583 R 1,510									
NA 8,656 NA 200 838 15,583 1,479									R 1,510
	WACL	IAGE	NA	8,656	NA	-209	128	<i>15,583</i> <b>15,090</b>	1,479

Includes lease condensate.

Includes lease condensate.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

Stocks are totals as of end of period.

Includes crude oil, natural gas plant production, other hydrocarbons and alcohol.

Includes stocks located in the Strategic Petroleum Reserve.

Includes crude oil for storage in the Strategic Petroleum Reserve.

Net Imports = Imports minus Exports.

In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.

Crude Oil<sup>1</sup> and Petroleum Products Overview (continued)

			Imports			Exports		
		Total	Crude Oil <sup>6</sup>	Petroleum Products	Total	Crude Oil	Petroleum Products	Net <sup>7</sup> Imports
		··		Thous	and Barrels pe	r Day		
973	AVERAGE	6,256	3,244	3,012	231	2	229	6,025
974	AVERAGE	6,112	3,477	2,635	221	3	218	5,892
975	<b>AVERAGE</b>	6,056	4,105	1,951	209	6	204	5,846
976	AVERAGE	7,313	5,287	2,026	223	8	215	7,090
977	AVERAGE	8,807	6,615	2,193	243	50	193	8,565
978	AVERAGE	8,363	6,356	2,008	362	158	204	8,002
979	AVERAGE	8,456	6,519	1,937	472	235	237	7,984
980	AVERAGE	6,909	5,263	1,646	544	287	258	6,365
981	January	6,827	4,932	1,895	558	339	219	6,270
	February	6,772	4,873	1,899	569	198	371	6,203
	March	6,028	4,521	1,507	586	210	376	5,442
	April	5,668	4,338	1,330	570	198	372	5,098
	May	5,775	4,287	1,489	595	312	283	5,180
	June	5,435	4,061	1,375	420	123	297	5,015
	July	5,816	4,296	1,521	571	257	314	5,245
	August	5,767	4,179	1,588	644	204	440	5,123
	September	6,365	4,740	1,624	519	194	325	5,845
	October	5,959	4,380	1,579	738	226	512	5,221
	November	5,741	4,046	1,695	701	278	423	5,041
	December	5,843	4,137	1,706	656	189	467	5,187
	AVERAGE	5,996	4,396	1,599	595	228	367	5,401
982	January	5,332	3,693	1,639	829	238	591	4,503
	February	4,807	2,990	1,817	804	304	499	4,003
	March	4,484	2,874	1,610	882	321	561	3,602
	April	4,378	2,849	1,529	786	174	611	3,593
	May	4,811	3,309	1,503	803	262	542	4,008
	June	5,327	3,836	1,491	703	94	609	4,624
	July	5,890	4,248	1,642	741	229	512	5,149
	August	5,244	3,851	1,392	858	304	554	4,386
	September	5,414	3,636	1,778	791	184	606	4,624
	October	5,306	3,670	1,636	932	270	662	4,374
	November	5,744	3,862	1,882	786	262	524	4,958
	December	4,606	3,000	1,605	860	193	667	3,746
	AVERAGE	5,113	3,488	1,625	815	236	579	4,298
983	January	4,372	2,938	1,434	973	117	856	3,399
	February	3,691	2,268	1,423	865	262	603	2,825
	March	3,629	2,232	1,398	801	174	627	2,829
	April	4,744	3,154	1,590	809	88	721	3,935
	May	4,898	3,234	1,664	848	280	568	4,049
	June	5,218	3,502	1,716	774	144	630	4,443
	July	5,690	3,868	1,822	571	145	426	5,119
	August	6,036	4,174	1,863	663	172	491	5,373
	September	6,088	4,221	1,867	684	177	507	5,403
	October	5,256	3,446	1,810	576	140	436	4,680
	November*	R 5,168	R 3,312	R 1,856	679	186	494	4,489
	December**	4,944	3,400	1,544	NA	NA	NA	NA
	AVERAGE	4,985	3,318	1,667	NA	NA	NA	NA

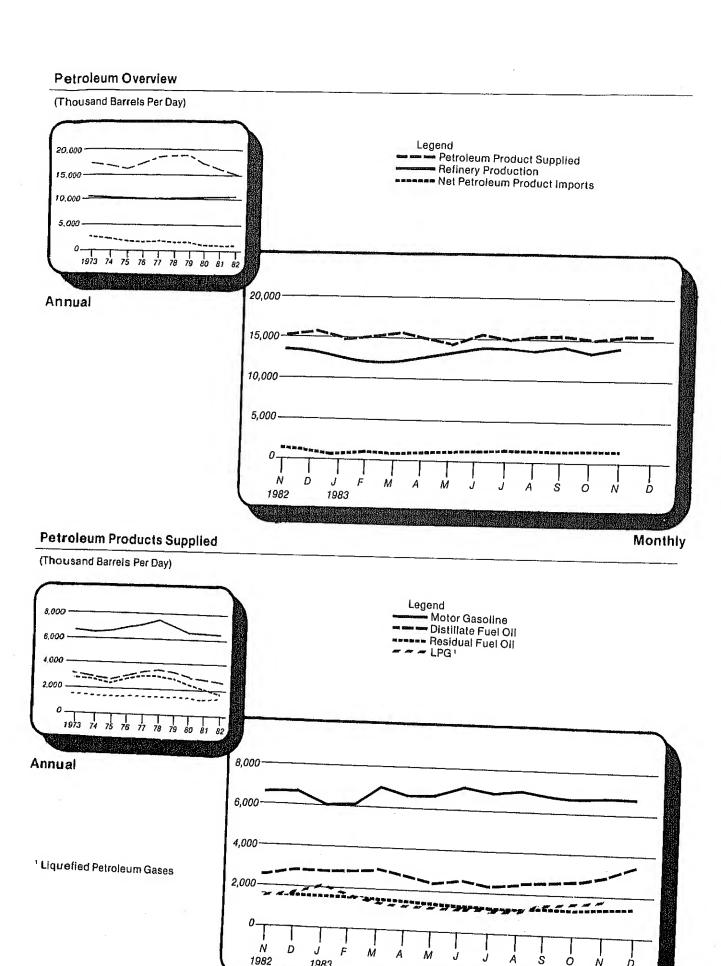
Footnotes continued.

\* See Explanatory Note 9.1.

\*\* Italics denote estimates based upon preliminary data. See Explanatory Note 8.

R = Revised data. NA = Not available.

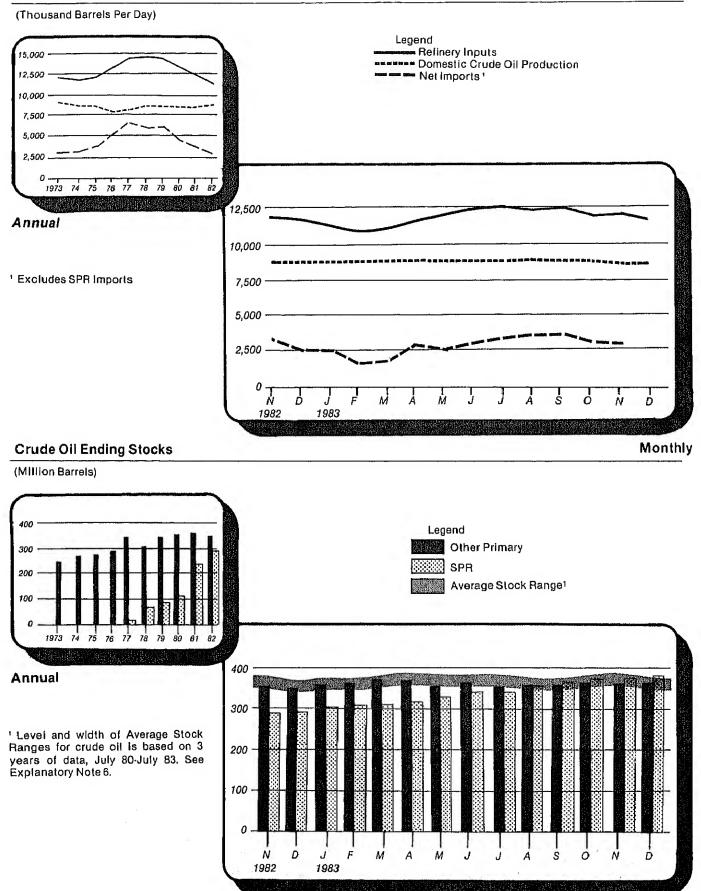
Note: Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components due to independent rounding. Sources: See the last page of this section.



Monthly

1983

### **Crude Oil Supply and Disposition**



Monthly

					Supply			
	Field Pr	oduction		Imports	3	Stock W	/Ithdrawal <sup>3</sup>	
	Total Domestic	Alaskan	Total	SPR4	Other	SPR4	Other	Unac- counted for Crude Oil
				Thousand I	Barrels per D	ay		
1973 AVERAGE 1974 AVERAGE	9,208	198	3,244		3,244		11.	3
	8,774	193	3,477		3,477		-62	-25
1975 AVERAGE	8,375	191	4,105		4,105		-17	17
1976 AVERAGE	8,132	173	5,287		5,287		-39	77
1977 AVERAGE	8,245	464	6,615	21	6,594	-20	-150	
1978 AVERAGE	8,707	1,229	6,356	162	6,195	~163		~6
1979 AVERAGE	8,552	1,401	6,519	67	6,452		84	-57
1980 AVERAGE	8,597	1,617	5,263	44		-67	-81	-11
4004		.,	0,200	74	5,219	-45	-52	34
1981 January	8,540	1,606	4,932	106	4,826	-151	<sup>6</sup> 201	140
February	8,604	1,619	4,873	80	4,793	-127		113
March	8,613	1,618	4,521	140	4,382	-155	-150	-41
April	8,557	1,608	4,338	272	4,066		-477	154
May	8,501	1,580	4,287	386	3,901	-444	-151	51
June	8,629	1,632	4,061	318		-513	122	286
July	8,500	1,605	4,296	175	3,743	-434	299	49
August	8,583	1,602	4,179		4,121	-324	-36	147
September	8,604	1,607	4,740	257	3,922	-372	769	16
October	8,563	1,596		435	4,305	-486	201	-295
November	8,586	1,614	4,380	453	3,927	-501	-259	166
December	8,585		4,046	271	3,774	-259	-66	279
AVERAGE		1,623	4,137	165	3,971	-252	82	
MENAGE	8,572	1,609	4,396	256	4,141	-336	46	52 <b>83</b>
1982 January	8,509	1,705	3,693	470				00
February	8,702	1,707		170	3,523	-159	-242	101
March	8,667	1,696	2,990	159	2,830	-213	-29	156
April	8,591	1,691	2,874	185	2,689	-235	357	2
May	8,683		2,849	190	2,659	-233	196	231
June	8,646	1,707	3,309	204	3,105	-176	205	
July	8,658	1,665	3,836	105	3,732	-105	144	111
August	•	1,710	4,248	97	4,150	-97		133
September	8,634	1,697	3,851	208	3,643	-208	~50	-20
October	8,701	1,705	3,636	139	3,497		-232	189
November	8,701	1,706	3,670	216	3,454	-143	406	-210
December	8,697	1,676	3,862	180	3,683	-216	-332	249
	8,598	1,682	3,000	124		-179	-219	-124
AVERAGE	8,649	1,696	3,488	165	2,877 3,323	-125	252	35
983 January	0.00		•	100	3,323	-174	38	71
February	8,634	1,698	2,938	219	2,720	0.40		
March	8,660	1,725	2,268	197		-219	-348	238
April	8,677	1,726	2,232	201	2,071	-197	-185	423
	8,686	1,710	3,154	205	2,031	-184	240	134
May	8,682	1,710	3,234		2,949	-197	-241	191
June	8,676	1,710	3,502	289	2,945	-293	362	148
July	8,647	1,705		190	3,312	-188	25	480
August	8,653	1,712	3,868	274	3,594	-264	382	
September	8,666	1,722	4,174	350	3,823	-358	-423	-74
October	8,654		4,221	309	3,912	-307		333
November*	8,624	1,731	3,446	202	3,244	-201	116	6
December**	8,612	1,713	R 3,312	R 171	R 3,141	R -135	21	69
AVERAGE	8,656	1,713	3,400	270	3,129	-229	R 317	137
	0,000	1,715	3,318	240	-, . E U		-4	NA

<sup>Includes lease condensate.
Stocks are totals as of end of period.
A negative number indicates an increase in stocks and a positive number Indicates a decrease.
Strategic Petroleum Reserve.
Begining in January 1983, crude oil used directly as fuel is shown as product supplied.
Stocks of Alaskan crude oil in transit were included in January 1981. Stock withdrawals are calculated using new basis stock levels. See Explanatory Note 11.
Footnotes continued on following page.</sup> 

Crude Oil<sup>1</sup> Supply and Disposition (continued)

		Supply		Dispo	sition		Eı	nding Stock	<b>s</b> <sup>2</sup>
		Crude Used Directly <sup>5</sup>	Crude Losses	Refinery Inputs	Exports	Products Supplied <sup>5</sup>	Total Crude Oll	SPR4	Other Primary
		,	Thous	and Barrels p	er Day		M	illion Barrel	8
1973	AVERAGE	-19	13	12,431	2	NA	242		242
1974	AVERAGE	-15	13	12,133	3	NA	265		265
1975	AVERAGE	-17	13	12,442	6	NA	271		271
1976	AVERAGE	-18	15	13,416	8	NA NA	285		285
1977	AVERAGE	-14	16	14,602	50	NA NA	348	7	340
1978	AVERAGE	-14	16	14,739	158	NA	376	67	340
1979	AVERAGE	-13	16	14,648	235	NA NA			
1980	AVERAGE	-13	15	•			430	91	339
1500	AVENAGE	-13	19	13,481	287	NA	<sup>6</sup> 466	108	<sup>6</sup> 358
1981	January	-43	6	13,247	339	NA	486	112	374
	February	-55	3	12,902	198	NA	494	116	378
	March	<b>-57</b>	6	12,383	210	NA	514	121	393
	April	-59	3	12,091	198	NA	532	134	397
	Мау	-59	3	12,309	312	NA	544	150	394
	June	-58	7	12,415	123	NA	548	163	385
	July	-58	7	12,261	257	NA	559	173	386
	August	-58	5	12,908	204	NA	547	185	362
	September	-61	4	12,505	194	NA	555	199	356
	October	-63	3	12,057	226	NA	579	215	364
	November	-64	4	12,240	278	NA	589	223	366
	December	-63	4	12,349	189	NA	594	230	363
	AVERAGE	-58	5	12,470	228	NA	334	230	303
1002	January	-63	0	44 500	000		000	205	
			3	11,599	238	NA	606	235	371
	February	-64	2	11,236	304	NA	613	241	372
	March	-63	5	11,276	321	NA	609	249	361
	April	-65	3	11,392	174	NA	610	256	355
	May	-62	3	11,806	262	NA	609	261	348
	June	-60	7	12,494	94	NA	608	264	344
	July	-60	3	12,446	229	NA	613	267	346
	August	-57	2	11,871	304	NA	626	274	353
	September	-56	4	12,146	184	NA	619	278	341
	October	-51	2	11,749	270	NA	636	285	351
	November	-51	1	11,724	262	NA	648	290	358
	December	-53	1	11,514	193	NA	644	294	350
	AVERAGE	-59	3	11,774	236	NA			
1983	January	NA	2	11,070	117	54	661	301	361
	February	NA	3	10,635	262	69	672	306	366
	March	NA	2	10,854	174	70			
	April	NA			88		670	312	359
	May		2	11,436		68	684	318	366
		NA	1	11,789	280	63	681	327	355
	June	NA	1	12,287	144	64	686	332	354
	July	NA	2	12,347	145	65	683	341	342
	August	NA	1	12,141	172	64	707	352	355
	September	NA	1	12,445	177	66	713	361	352
	October	NA	1	11,784	140	63	718	367	351
	November*	NA	2	R 12,003	186	64	R 713	371	R 341
	December**	NA	NA	11,404	NA	NA	727	378	349
	AVERAGE	NA	NA	11,688	NA	NA			•

Footnotes continued.

\* See Explanatory Note 9.2.

\*\* Italics denote estimates based upon preliminary data. See Explanatory Note 8.

R = Revised data. NA = Not available.

Note: Geographic coverage is the 50 States and the District of Columbia.

Totals may not equal sum of components due to independent rounding.

Sources: See the last page of this section.

				•		Imports fro	om OPEC	Sources1	<del></del>			
		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indo- nesia	Iran	Nigeria	Vene-	Other OPEC <sup>2</sup>	Total OPEC	Total Arab OPEC <sup>3</sup>
						Thousand	Barrels	per Day				L
1973 1974	AVERAGE	136	164	486	71	213	223	459	1,135	100	2000	
1975	AVERAGE	190	4	461	74	300	469	713	979	106	2,993	915
	AVERAGE	282	232	715	117	390	280	762	702	88	3,280	752
1976 1977	AVERAGE	432	453	1,230	254	539	298	1,025	702	122	3,601	1,383
1978	AVERAGE	559	723	1,380	335	541	535	1,143	690	134	5,066	2,424
1979	AVERAGE	649	654	1,144	385	573	555	919	645	287	6,193	3,185
1980	AVERAGE	636	658	1,356	281	420	304	1,080	690	226	5,751	2,963
1900	AVERAGE	488	554	1,261	172	348	9	857	481	212 130	5,637 4,300	3,056 2,551
1981 J	anuary	341	500	1,284	93	424				100	4,000	2,001
F	ebruary	381	468	1,122	93	406	0	908	549	27	4,127	2,219
	larch	352	485	1,027	47	328	0	866	463	92	3,891	2,064
Α	pril	263	485	1,034	68		0	771	360	54	3,425	1,912
M	lay	393	443	933	17	307	0	812	237	39	3,245	1,867
J۱	tne	356	380	865	60	297	0	664	331	124	3,203	1,796
	uly	333	251	1,073	80	367 340	0	528	248	118	2,922	1,703
A	ugust	348	274	1,082	61	340 377	0	651	466	38	3,233	1,757
S	eptember	336	154	1,477	96		0	321	523	84	3,070	1,765
	ctober	242	147	1,342	90	371	0	323	359	149	3,264	2,063
Ne	ovember	210	132	1,270	112	427	0	412	389	172	3,220	1,820
De	ecember	176	122	1,045		353	0	517	535	56	3,184	1,724
	AVERAGE	311	319	1,129	158	400	0	684	411	132	3,129	1,502
			010	1,123	81	366	0	620	406	90	3,323	1,848
1982 Ja	inuary	254	161	877	111	289	0	663	070			
	bruary	139	92	693	89	244	Ö	584	376	128	2,859	1,403
	arch	91	37	555	155	200	0	504 522	355	102	2,297	1,054
Ap		85	0	511	122	215	ő		399	91	2,051	860
Ma		179	0	601	116	236	0	427	426	85	1,871	740
Ju		115	0	593	94	215	72	222	422	54	1,830	897
Jul		159	0	660	108	327	<b>6</b> 9	537	361	110	2,096	820
Au	gust	181	0	489	133	271	27	910	356	95	2,685	965
	ptember	179	0	432	57	191	21	574	299	133	2,107	818
	tober	249	7	494	61	242	108	477	518	69	1,943	677
	vember	247	14	489	47	283	34	313	504	106	2,084	810
	cember	155	0	237	12	265	88	479	528	115	2,235	797
A	VERAGE	170	26	552	92	248	35	462 <b>514</b>	399 <b>412</b>	73 <b>97</b>	1,690	421
1 <b>9</b> 83 Jar	านลาง	204	0	282	455			0.14	712	97	2,146	854
Feb	ruary	104	ő		47	255	43	186	324	43	1,384	533
Mai	rch	63		214	9	217	0	92	371	28	1,035	326
Apr		228	0	103	0	138	0	121	425	173	1,023	183
May		284	0	180	(s)	210	0	186	508	125	1,438	409
Jun		300	0	122	12	324	37	352	444	69	1,645	
July		282	0	175	40	502	38	402	335	146	1,938	419
Aug			0	182	58	464	112	525	431	187	2,240	515
	tember	370 413	0	426	45	416	213	464	477	230	2,641	599
Octo			0	587	21	516	86	324	472	208	2,627	866
	ember	261	0	638	16	368	12	307	337	169	2,027 2,108	1,074
	ERAGE	165	0	545	56	318	21	214	435	135	1,891	938
	I I I I I I I I I I I I I I I I I I I	244	0	314	28	339	52	290	415	138	1,821	789 <b>606</b>

Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.
 Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
 Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

Footnotes continued on following page.

					li li	mports fron	n Non-OPE	C Sources	4			
		Baha- mas	Canada	Mexico	Nether- lands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico	Virgin Islands	Other Non OPEC	Total Non OPEC	Total Imports
			L			Thousa	nd Barrels	per Day				
1973	AVERAGE	174	1,325	16	585	255	15	99	329	465	3,263	6,256
1974	AVERAGE	164	1,070	8	511	251	8	90	391	340	2,832	6,112
1975	AVERAGE	152	846	71	332	242	14	90	406	300	2,454	6,056
1976	<b>AVERAGE</b>	118	599	87	275	274	31	88	422	353	2,247	7,313
1977	<b>AVERAGE</b>	171	517	179	211	289	126	105	466	550	2,614	8,807
1978	<b>AVERAGE</b>	160	467	318	229	253	180	94	429	484	2,613	8,363
1979	AVERAGE	147	538	439	231	190	202	92	431	548	2,819	8,456
1980	AVERAGE	78	455	533	225	176	176	88	388	491	2,609	6,909
1981	January	39	543	401	198	150	233	89	494	552	2,701	6,827
F	ebruary	84	546	437	227	163	271	46	481	626	2,881	6,772
1	/larch	74	472	488	227	93	263	45	370	571	2,603	6,028
P	April	68	412	418	198	13 <b>9</b>	402	40	365	380	2,423	5,668
N	Лау	122	365	522	213	105	368	5 <b>8</b>	344	474	2,573	5,775
	lune	51	353	538	196	124	397	67	262	525	2,513	5,435
	luly	77	382	384	212	178	553	50	206	541	2,583	5,816
P	August	69	378	489	255	123	592	68	184	539	2,698	5,767
	September	111	423	708	163	169	528	72	265	661	3,100	6,365
(	October	63	449	669	161	121	351	60	303	562	2,739	5,959
1	November	63	547	628	168	108	253	76	294	421	2,557	5,741
	December	70	501	587	148	125	280	73	367	563	2,714	5,843
	AVERAGE	74	447	522	197	133	375	62	327	534	2,672	5,996
1982	January	58	513	425	179	106	346	62	334	452	2,474	5,332
F	ebruary	67	537	476	221	120	181	38	362	508	2,510	4,807
1	/larch	43	437	503	189	118	294	62	307	480	2,433	4,484
	\pril	82	360	476	184	166	247	36	266	690	2,507	4,378
	Лау	77	419	766	152	95	516	47	302	607	2,981	4,811
	lune	32	481	797	148	129	557	58	322	708	3,231	5,327
	luly	64	536	783	158	118	433	38	376	698	3,204	5,890
	August	80	443	853	145	106	520	24	317	650	3,137	5,244
	September	92	493	897	195	89	631	51	278	746	3,472	5,414
	October	45	459	682	148	109	666	52	262	801	3,222	5,306
	Vovember	51	553	860	212	90	623	81	334	706	3,508	5,744
. [	December AVERAGE	88 <b>65</b>	561 <b>482</b>	689 <b>685</b>	174 1 <b>7</b> 5	102 <b>112</b>	438 <b>456</b>	48 <b>50</b>	336 316	480 <b>627</b>	2,916 2,968	4,606 <b>5,1</b> 13
	January	68	536	849	218	73	315	40	299	588	2,988	4,372
	ebruary	92	592	722	179	81	193	50	192	554 560	2,655	3,691
	March	86	488	760	187	78 25	240	43	162	563	2,606	3,629
	April	167	452	981	216	85	421	20	183	781 651	3,306	4,744
	May	135	501	944	153	108	483	42	235	651	3,252	4,898
	lune	137	576	831	181	120	424	48	252	712	3,281	5,218
	luly	69	633	849	191	103	369	37	364	836	3,450	5,690
	August	142	540	891	194	90	461	40	313	725	3,395	6,036
	September	137	523	832	251	82	472	33	308	822 565	3,461	6,088
	October	164	539	771	172	106	414	48	370 440	565 793	3,149	5,256
ı	Vovember	143	542	717	144	110	334	55			3,278	5,168
	AVERAGE	122	538	832	190	94	37 <del>6</del>	41	284	690	3,168	4,989

Footnotes continued.

Includes petroleum imported into the United States Indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.

<sup>(\*) =</sup> Less than 500 barrels.

Note: Beginning In October 1977, Strategic Petroleum Reserve imports are included.

Totals may not equal sum of components due to independent rounding.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See the last page of this section.

			Supply			Di:	sposition		Ending	Stocks1
		Total Produc-		Stock With-			Product Supplie	ed	Total	Finishe
		tion	Imports <sup>2</sup>	drawal <sup>2</sup> <sup>3</sup>	Exports	Total	Unleaded <sup>4</sup>	Unleaded	Motor Gasoline <sup>5</sup>	Motor Gasolin
				Thousand Ba	arrels per Da	ау		Percent of Total	Million	Barrels
1973 1974	AVERAGE	6,535	134	9	4	6,674	NA	NA		
1975	AVERAGE AVERAGE	6,360	204	-24	2	6,537	NA	NA NA	209	
1976		6,520	184	<sup>6</sup> -28	2	6,675	NA		6 218	
1977	AVERAGE	6,841	131	10	3	6,978	NA NA	NA	235	
	AVERAGE	7,033	217	~72	2	7,177		NA	231	
1978	AVERAGE	7,169	190	54	ī		1,976	27.5	258	
1979	AVERAGE	6,852	181	2		7,412	2,521	34.0	238	
1980	<b>AVERAGE</b>	6,506	140	-66	( <sup>s</sup> )	7,034	2,798	39.8	237	
			140	-00	1	6,579	3,067	46.6	<sup>6</sup> 261	
	January <sup>7</sup>	6,715	138	6 -421	/e\		_			
F	ebruary	6,308	111		( <sup>5</sup> )	6,431	3,141	48.8	276	227
	/arch	6,213		-118	1	6,301	3,095	49.1	284	
	prîl	6,114	171	-81	( <sup>S</sup> )	6,303	3,097	49.1	285	230
	lay		186	303	( <sup>8</sup> )	6,602	3,284	49.7		232
	une	6,122	150	344	1	6,615	3,115	47.1	272	223
	uly	6,220	186	622	1	7,028	3,419		259	213
		6,405	151	268	( <sup>s</sup> )	6,823	3,424	48.6	242	194
	ugust	6,611	124	-95	ິ່ 3	6,637		50.2	228	186
0	eptember	6,564	169	-70	2		3,344	50.4	233	189
	ctober	6,426	147	7	3	6,662	3,338	50.1	237	191
	ovember	6,564	148	-338	1	6,578	3,257	49.5	236	190
	ecember	6,586	197	-91		6,373	3,198	50.2	248	201
	AVERAGE	6,405	157	28	11	6,681	3,444	51,5	253	203
		.,	107	20	2	6,588	3,264	49.5	400	200
982 Ja	anuary	6,167	128	040						
Fe	ebruary	5,899	133	-316	18	5,961	3,067	51.5	261	040
Ma	arch	5,994		172	8	6,196	3,210	51.8	257	213
Ar		6,095	183	334	44	6,466	3,358	51.9		208
Ma			185	650	33	6,897	3,495	50.7	247	198
Ju		6,319	182	177	23	6,655	3,415		221	179
Ju		6,754	230	-134	14	6,835	3,565	51.3	214	173
	gust	6,768	225	-178	24	6,790	3,577	52.2	219	177
		6,419	291	-81	16	6,614		52.7	226	183
	ptember	6,527	223	-198	22		3,526	53.3	227	185
	tober	6,262	185	-42	15	6,531	3,404	52.1	234	191
140	vember	6,273	211	101		6,391	3,351	52,4	234	192
De	cember	6,542	178	-165	11	6,574	3,451	52.5	230	189
А	VERAGE	6,338	197	25	7 <b>20</b>	6,549	3,485	53.2	6 235	6 194
				20	20	6,539	3,409	52.1		104
<b>83</b> Jar	luary	6,020	148	<sup>6</sup> -186	(a)					
Feb	ruary	5,848	142		(S)	5,981	3,352	56.0	251	200
Mai	rch	5,897	205	32	(s)	6,022	3,257	54.1	251	208
Apri	il	6,202	273	765	23	6,843	3,620	52.9		207
May	,	6,386		27	1	6,501	3,505	53.9	224	184
Jun		6,646	284	-128	1	6,540	3,547		221	183
July			265	118	22	7,008	3,796	54.2	225	187
Aug		6,704	297	-210	18	6,773	3,752	54.2	223	183
	tember	6,539	260	159	13	6,946		55.4	231	190
		6,582	285	-160	14	6,693	3,836	55.2	226	185
Octo		6,188	335	60	2		3,671	54.8	230	190
	ember*	R 6,636	R 269	R -274	2	6,581	3,698	56.2	228	188
⊸ Dece	ember** ERAGE	6,310	241	71	NA	R 6,629	R 3,714	56.0	236	196
		6,332	251		INA	6,614	NA	NA		:30

Stocks are totals as of end of period.

Beginning in 1981, excludes blending components.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

Includes motor gasoline blending components.

In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.

Beginning in January 1981, survey forms were modified. See Explanatory Note 12.

See Explanatory Note 9.3.

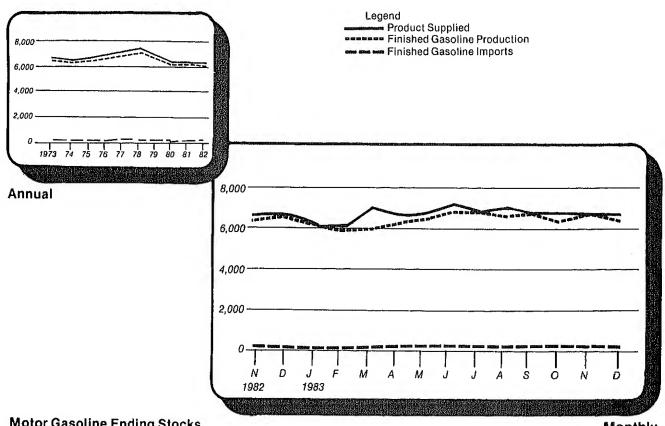
Italics denote estimates based upon preliminary data. See explanatory Note 8.

R = Revised Data. NA = Not available. (s) = Less than 500 barrels per day.

Note: Geographic coverage is the 50 States and the District of Columbia.

Totals may not equal sum of components due to independent rounding. Sources: See the last page of this section.

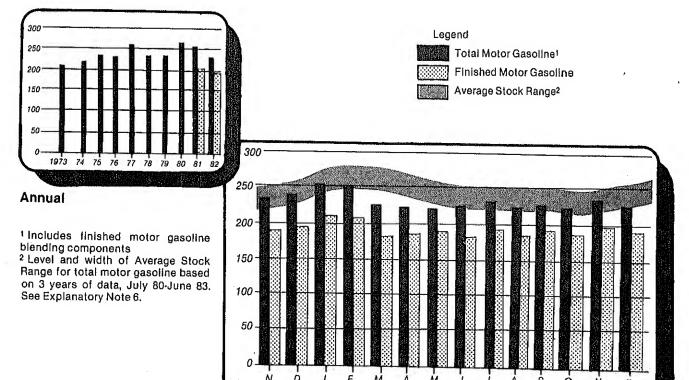




### **Motor Gasoline Ending Stocks**

Monthly





Monthly

		Supply				Disposition		Ending Stocks <sup>1</sup>	
		Total Production	Imports	Stock Withdrawai <sup>2</sup>	Crude Used Directly <sup>3</sup>	Exports	Products Supplied <sup>3</sup>		
				Thousand Bar	rels per Day			Million Barrels	
1973	AVERAGE	2,822	392	-115	2	9	3,092	196	
1974	AVERAGE	2,669	289	-9	2	2	2,948	4 200	
1975	AVERAGE	2,654	155	4 40	2	1	2,851	209	
1976		2,924	146	62	1	1	3,133	186	
1977		3,278	250	-176	i	i	3,352	250	
1978		3,167	173	93	i	3	3,432		
1979		3,153	193	-34	1			216	
1980						3	3,311	229	
1300	AVERAGE	2,662	142	64	1	3	2,866	4 205	
1981	January5	2,989	273	4 836	11	(8)	4,109	179	
	February	2,809	325	246	11	17	3,373	173	
	March	2,484	147	264	9	(8)	2,904	164	
	April	2,418	116	-9	10	ີ່ 3	2,532	165	
	May	2,454	179	-232	10	(s)	2,411	172	
	June	2,501	225	-270	9	(s)	2,464		
	July	2,395	179	-204	10	2		180	
	August	2,656	174	-450			2,378	186	
	September	2,610	129	-235	8	(8)	2,388	200	
	October	2,485			10	1	2,513	207	
	November		119	197	9	5	2,803	201	
	December	2,716	124	36	11	6	2,880	200	
	AVERAGE	2,856	95	277	11	26	3,212	192	
	AVERAGE	2,613	173	38	10	5	2,829		
982	January	2,591	97	876	10	90	3,484	104	
	February	2,427	132	605	11	90	3,085	164	
	March	2,288	48	682	10	84		147	
	April	2,358	59	612	13	64	2,945	126	
	May	2,618	74	-183	10		2,978	108	
	June	2,729	102	-335		75	2,444	114	
	July	2,734	125		10	55	2,452	124	
	August	2,507	80	-789	11	24	2,058	148	
	September	2,657		-339	10	40	2,218	159	
	October	2,838	61	-85	12	139	2,507	161	
	November	2,860	91	-289	8	66	2,581	170	
	December	2,655	145	~514	8	24	2,475	186	
	AVERAGE		109	225	10	143	2,855	4 179	
	AVENAGE	2,606	93	35	10	74	2,671	170	
183	January	2,314	58	4 561	NA	470			
	February	2,136	58	742		173	2,760	168	
	March	1,991	42	926	NA NA	105	2,832	147	
	April .	2,169	73	518	NA	59	2,900	119	
- 1	Vlay	2,444	141		NA	47	2,713	103	
	lune	2,545	175	-193	NA	50	2,341	109	
	luly	2,600	259	-154	NA	40	2,526	114	
	\ugust	2,612		-556	NA	55	2,248	131	
	September		302	-403	NA	43	2,467	144	
	October	2,725	253	-374	NA	37	2,568		
	lovember*	2,682	255	-275	NA	55		155	
		R 2,679	R 189	R 65	NA	54	2,606	163	
L	ecember** AVERAGE	2,566	170	560	NA	NA	R 2,879	R 161	
	ATERAGE	2,457	165	114	NA	NA NA	<i>3,250</i>	144	

Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Explanatory Note 4.
 In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 Beginning in January 1981, survey forms were modified. See Explanatory Note 12.
 See Explanatory Note 9.4

<sup>\*</sup> See Explanatory Note 9.4.

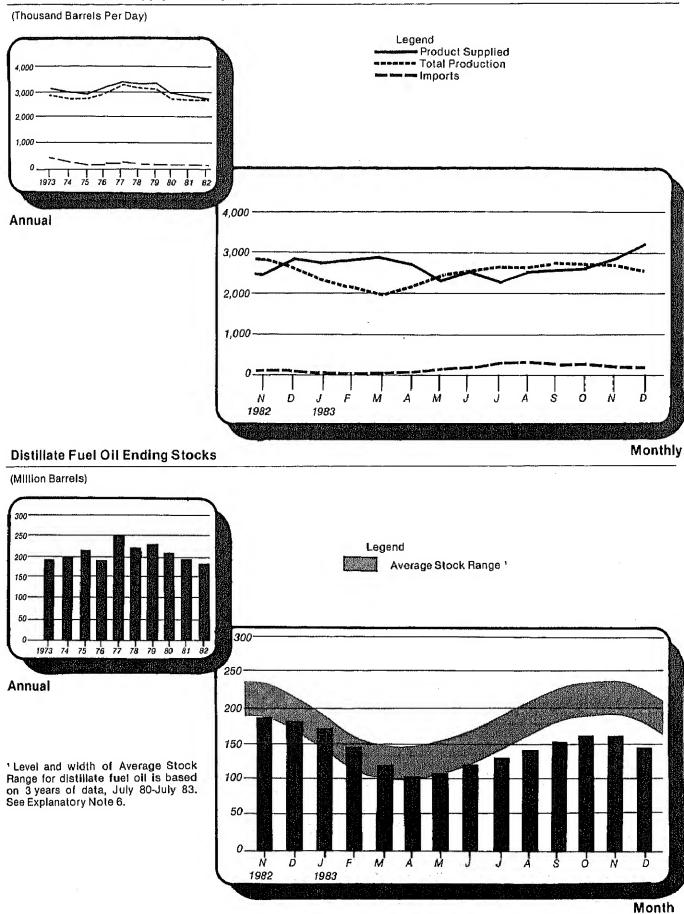
\*\* Italics denote estimates based on preliminary data. See Explanatory Note 8.

R = Revised data. NA = Not available. (s) = Less than 500 barrels per day.

Note: Geographic coverage is the 50 states and the District of Columbia.

Totals may not equal sum of components due to independent rounding Totals may not equal sum of components due to independent rounding. Sources: See the last page of this section.

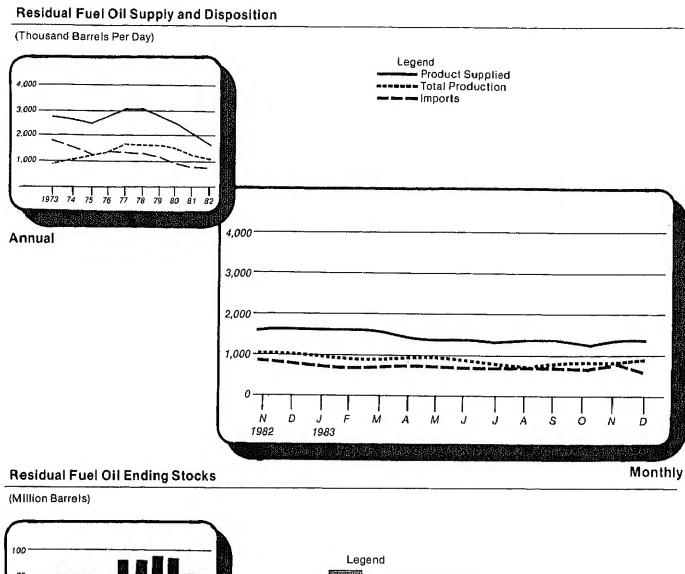
### Distillate Fuel Oil Supply and Disposition

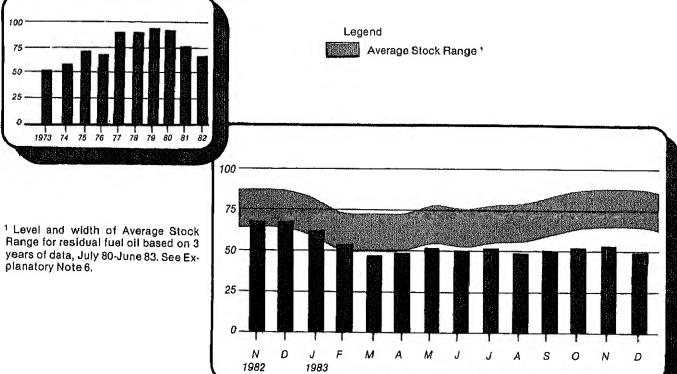


		Sı	apply		Disposition		Ending Stocks <sup>1</sup>
	Total Produc- tion	Imports	Stock Withdrawal <sup>2</sup>	Crude Used Directly <sup>3</sup>	Exports	Products Supplied <sup>3</sup>	
		Million Barrets					
1973 AVERAGE	971	1,853	5	17	23	2,822	53
1974 AVERAGE	1,070	1,587	-17	13	14	2,639	4 60
1975 AVERAGE	1,235	1,223	4 2	15	15	2,462	74
1976 AVERAGE	1,377	1,413	5	17	12	2,801	72
1977 AVERAGE	1,754	1,359	-48	13	6	3,071	90
1978 AVERAGE	1,667	1,355	-1	13	13	3,023	90
1979 AVERAGE	1,687	1,151	-15	12	9	2,826	96
1980 AVERAGE	1,580	939	10	12	33	2,508	4 92
	·			·-	•	2,000	. 32
1981 January <sup>5</sup>	1,612	1,015	4 302	32	65	2,896	82
February	1,565	954	150	44	125	2,588	78
March	1,424	699	100	48	145	2,126	
April	1,320	584	66	49	151		75
May	1,223	741	-170	49		1,868	73
June	1,232	540	291		25	1,817	78
July	1,174	830	291	49	76	2,037	69
August	1,231	819		48	82	1,971	69
September	1,292		-179	50	69	1,852	75
October		841	-176	51	126	1,882	80
November	1,238	786	8	54	202	1,884	80
December	1,227	880	-49	53	203	1,909	81
AVERAGE	1,329	916	110	52	157	2,250	78
AVERAGE	1,321	800	37	48	118	2,088	, 0
982 January	1,235	831	004				
February	1,186	956	301	53	235	2,185	69
March	1,123	912	363	53	213	2,344	58
April	1,166	788	12	53	197	1,903	58
May	1,128		150	52	234	1,923	54
June	1,074	742	-172	52	191	1,560	59
July	1,028	652	-57	50	217	1,501	61
August	965	657	56	49	239	1,550	59
September		551	203	47	235	1,531	53 53
October	1,008	872	-306	44	148	1,470	62
November	955	783	-57	43	234	1,490	
December	989	837	-94	43	182	1,591	64
AVERAGE	989	747	6	43	186	1,598	66
ATENAGE	1,070	776	32	48	209	1,716	4 66
183 January	935	004	4			1,7 10	
February	857	691	4 243	NA	294	1,574	61
March	833	632	270	NA	191	1,568	
April		686	220	NA	169	1,569	53
May	942	743	-10	NA	310		46
June	930	709	-139	NA	190	1,364	47
July	832	676	28	NA	219	1,310	51
August	771	682	-58	NA		1,317	50
	706	705	115	NA	90	1,306	52
September	815	690	-47		165	1,362	48
October	799	634	-56	NA	134	1,324	50
November*	R 848	R 777	R -101	NA	153	1,224	51
December**	886	570	77	NA	167	R 1,358	R 54
AVERAGE	846	683	44	NA	NA	1,389	48
			44	NA	NA	1,388	

Stocks are totals as of end of period.

<sup>Stocks are totals as of end of period.
A negative number indicates an increase in stocks and a positive number indicates a decrease.
Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Explanatory Note 4.
In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
Beginning in January 1981, survey forms were modified. See Explanatory Note 12.
See Explanatory Note 9.4.
Italics denote preliminary data. See Explanatory Note 8.
R = Revised data. NA = Not available. (\*) = Less than 500 barrels per day. Note: Geographic coverage is the 50 States and the District of Columbia.
Totals may not equal sum of components due to independent rounding.
Sources: See the last page of this section.</sup> 



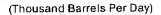


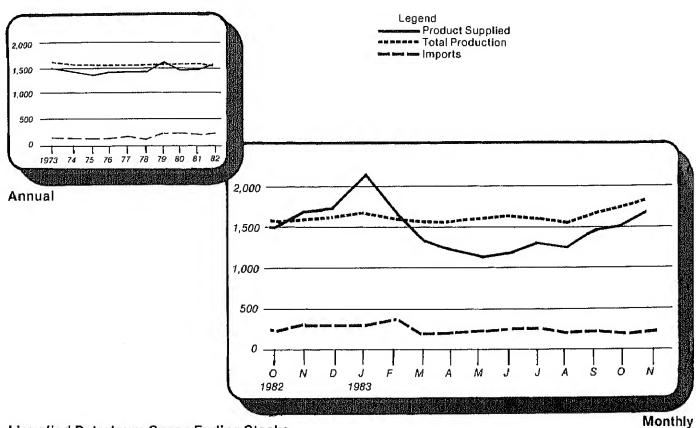
Monthly

# Liquefied Petroleum Gases Supply and Disposition

		Supply			Disposition			Ending Stocks <sup>1</sup>
		Total Production	Imports	Stock Withdrawai <sup>2</sup>	Refinery Inputs	Exports	Products Supplied	
		Thousand Barrels per Day						Million Barrels
1973	AVERAGE	1,600	132	-35	220	27	1 110	
1974	AVERAGE	1,565	123	-38	220	25	1,449	99
1975	AVERAGE	1,527	112	<sup>3</sup> -35	246	26	1,406	<sup>3</sup> 113
1976	AVERAGE	1,535	130	24	260	25	1,333	125
1977	AVERAGE	1,566	161	-55	233	18	1,404	116
1978	AVERAGE	1,537	123	12	239		1,422	136
1979	AVERAGE	1,556	217	70	236	20	1,413	132
1980	AVERAGE	1,535	216	-27		15	1,592	111
		,	210	-21	233	21	1,469	<sup>3</sup> 120
1981	January	1,617	306	<sup>3</sup> 363	352	04		
ı	February	1,593	327	173	303	21	1,913	117
	March	1,551	260	-4	303 257	21	1,769	112
/	April 💮	1,586	214	-236		20	1,530	112
ı	May	1,587	189		231	26	1,308	119
	June	1,567	206	-258	220	19	1,279	127
	July	1,507	213	-208	237	24	1,304	133
	August	1,592		-258	215	17	1,229	141
	September	1,622	195	-242	235	149	1,160	149
	October		199	-75	287	21	1,438	151
	Vovember	1,593	287	72	320	76	1,556	149
	December	1,571	280	86	383	58	1,495	
L-	AVERAGE	1,468	255	379	428	50	1,624	146
	AVERAGE	1,571	244	-18	289	42	1,466	135
982 J	anuary	1,565	314	440			.,	
F	ebruary	1,466	291	443	391	67	1,863	121
	farch	1,544	223	243	327	51	1,621	114
	prif	1,506		211	289	74	1,615	108
	lay	1,565	188	98	257	77	1,458	105
	une		186	-71	234	43	1,403	107
	uly Valu	1,515	192	-86	262	106	1,254	109
	ugust	1,476	227	-13	253	37	1,399	
		1,511	125	~45	254	61		110
	eptember	1,538	247	37	274	85	1,276	111
	ctober	1,517	194	97	306	81	1,463	110
	ovember	1,542	267	175	363	37	1,421	107
	ecember	1,580	258	256	395		1,583	102
•	AVERAGE	1,528	226	111	300	56	1,642	3 94
				***	300	65	1,499	
	inuary	1,662	240	<sup>3</sup> 618	210	440		
Fe	bruary	1,560	305	84	313	118	2,088	84
Mε	arch	1,517	166	~51	237	76	1,636	81
Ap	oril	1,531	124	~107	189	127	1,316	83
Ma	ay	1,545	167		198	116	1,232	86
Jui		1,593	172	-326	207	84	1,094	96
Jul		1,571		-333	205	59	1,169	106
	gust	1,505	191	-206	217	55	1,284	112
	plember		160	-183	229	29	1,225	118
	tober	1,625	178	-23	236	86	1,457	
	vember*	1,688	160	-61	268	32	1,487	119
		1,784	180	78	361	33		121
А	VERAGE	1,598	185	-47	242	74	1,648	118

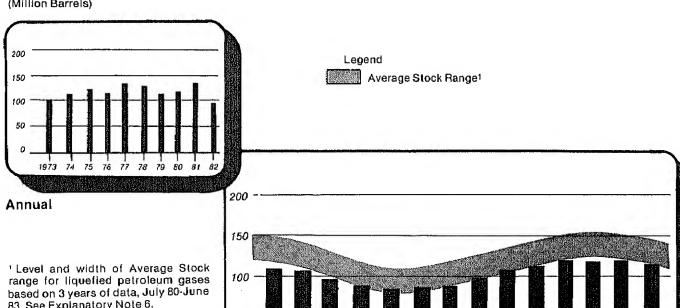
Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 \* See Explanatory Note 9.5.
 Note: Geographic coverage is the 50 States and the District of Columbia.
 Totals may not equal sum of components due to Independent rounding.
 Sources; See the last page of this section.





### **Liquefied Petroleum Gases Ending Stocks**





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83. See Explanatory Note 6.

Monthly

1983

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		Supply			Disposition			Ending Stocks <sup>2</sup>
		Total Production	Imports	Stock Withdrawal <sup>3</sup>	Refinery Inputs	Exports	Products Supplied	
			Thousand Barrels per Day					Million Barrels
1973	AVERAGE	3,693	502	-9	750			
1974	AVERAGE	3,558	432	-28	750	166	3,270	208
1975	AVERAGE	3,424	277	4 <b>2</b>	665	174	3,123	4 218
1976	AVERAGE	3,643	206	-5	537	160	3,002	219
1977	AVERAGE	3,912	205		524	175	3,145	220
1978	AVERAGE	4,046	166	-27	514	165	3,410	230
1979	AVERAGE	4,153		14	492	167	3,568	225
1980	AVERAGE	3,956	195	-37	352	209	3,749	238
		0,900	210	~23	311	198	3,634	4 247
1981	January	0.004					5,004	- 247
,	February	3,821	162	4 80	851	132	3,081	000
	March	3,723	182	-200	538	208		296
		3,722	230	-55	642	210	2,958	302
	April	3,711	230	24	733	192	3,043	304 .
	May	3,892	229	-58	594		3,040	303
	June	3,925	218	-29	656	238	3,231	305
	July	3,852	149	284	791	197	3,261	306
	August	3,876	276	-33		212	3,282	297
	September	3,718	285	215	676	219	3,225	298
(	October	3,503	241	193	883	176	3,159	291
1	November	3,579	262		710	227	3,000	285
1	December	3,543	243	33	784	154	2,935	284
	AVERAGE	3,739		71	805	223	2,829	282
		0,703	226	46	723	199	3,088	202
982 J	January	3,171	000	_			-,	
F	ebruary	3,403	269	-7	624	180	2,631	282
	/arch		305	-153	663	138	2,755	
	April	3,466	243	-191	725	161	2,631	287
	/ay	3,408	309	73	796	204		293
	une	3,317	318	184	824	210	2,790	290
	uly	3,547	315	123	812	216	2,785	285
		3,660	408	-1	856		2,954	281
	ugust	3,583	346	217	743	187	3,023	281
	eptember	3,533	375	105	749	202	3,201	274
	ctober	3,529	383	244	915	213	3,051	271
	ovember	3,498	423	-28		266	2,976	264
	ecember	3,324	313	366	837	269	2,786	264
	AVERAGE	3,453	334		885	275	2,842	4 253
	•	•	004	80	787	211	2,869	
983 Ja	anuary	3,222	297	4 074				
Fe	bruary	3,270	287	4 -371	570	271	2,307	271
	arch	3,400		-1	680	232	2,645	271
Ap		3,363	298	-94	570	249	2,786	
Ma			377	3	596	247	2,901	273
Ju		3,448	364	26	694	242	2,902	273
Jul		3,674	427	99	715	292		273
		3,703	393	106	757	209	3,197	270
	gust	3,774	435	23	689		3,237	266
_ '	ptember	3,861	460	-31	768	242	3,302	266
	tober	3,579	427	-124		236	3,287	267
	vember*	3,560	442	101	701 912	195	2,985	270
	VERAGE	3,534		101	412	238	2,955	267

Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.
 Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 See Explanatory Note 9.6.
 Note: Geographic coverage is the 50 States and the District of Columbia.
 Totals may not equal sum of components due to independent rounding.
 Sources: See the last page of this section.

# Sources

- 1973 through 1976: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual."
- 2. 1977 through 1980: Energy Information Administration (EIA), Energy Data Reports, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual," and unleaded gasoline data from Monthly Petroleum Statistics Report.
- 3. January 1981 through December 1982: EIA, Petroleum Supply Annual.
- 4. January 1983 through November 1983: Detailed statistics in appropriate issues of the Petroleum Supply Monthly. (see Explanatory Notes 9.1 through 9.6).
- 5. December 1983: Estimates based on EIA weekly data (except domestic crude oil production) (see Explanatory Note 1.1).
- January 1983 through December 1983: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey. (See Explanatory Note 3).



# Detailed Statistics

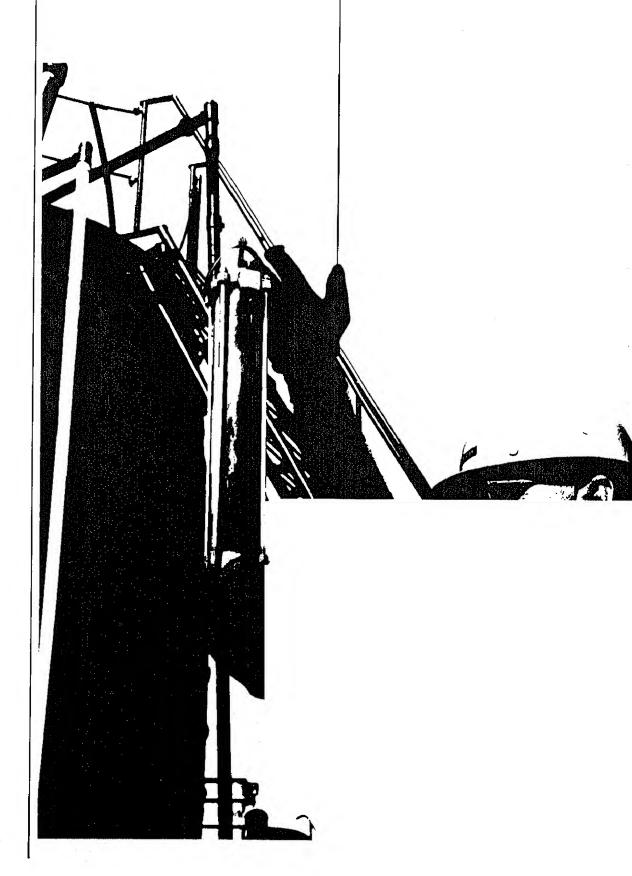


Table 1. U.S. Petroleum Balance, November 1983

	Curren	t Month	Year∙t	o-date
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
Crude Oil (Including Lease Condensate)				
Field Production				
1) Alaska	E 51,387	1,713	E 672,723	1,715
2) Lower 48 States	E 207,321	6,911	E 2,319,672	•
3) Total U.S	E 258,708	8,624	E 2,892,395	6,945
Net Imports	200/100	0,024	£ 2,092,393	8,660
4) Imports (Gross Excluding SPR)	94,237	3,141	1.000.400	2.070
5) SPR Imports	5,115	171	1,026,468	3,073
3) Exports	5,567	186	79,310	237
7) Imports (Net Including SPR)	93,785	3,126	57,011	171
Other Sources	20,700	0,120	1,048,768	3,140
SPR Withdrawal (+) or Addition (-)	~4.051	-135	-77.464	000
O) Other Stock Withdrawal (+) or Addition (-)	9,500	317	8,561	-232
0) Product Supplied and Losses	-1,977	-66	-22,062	26
1) Unaccounted for 1	4,112	137	62,218	-66
2) Total Other Sources	7,584	253	-28,747	186
3) Crude Input to Refineries	360,077	12,003		-86
(13) = (3) + (7) + (12)	300,077	12,003	3,912,416	11,714
Natural Gas Plant Liquids (NGPL)				
4) Field Production	49,088	4 000	PAR 477	
5) Imports 2	•	1,636	523,178	1,566
Stock Withdrawal (+) or Addition (-) 2	432	14	4,846	14
7) Total NGPL Supply	1,775	59	-5,269	-16
Other Liquids	51,295	1,710	522,555	1,565
Unfinished Oils and Gasoline Blending Components, Total				
3) Stock Withdrawal (+) or Addition (-)	0.050			
) Imports	3,850	128	-1,651	-5
Other Hydrocarbons and Alcohol New Supply (Field Production)	9,226	308	87,987	263
Aefinery Processing Gain 1	1,492	50	17,853	53
Crude Oil Product Supplied	16,360	545	161,670	484
3) Total Other Liquids	1,929	64	21,568	65
(23) = (18) through (22)	32,857	1,095	287,427	861
i) Total Production of Products 3				
(24) = (13) + (17) + (23)	444,229	14,808	4,722,398	14,139
Net Imports of Refined Products 3				
Imports (Gross)	40.000	4 800		
Exports	46,036	1,535	467,788	1,401
) Imports (Net)	14,812	494	193,040	578
mports (Net)	31,224	1,041	274,748	823
) Total New Supply of Products	475,454	15,848	1.007.140	11000
(28) = (24) + (27)	470,404	13,040	4,997,146	14,962
Refined Products Stock Withdrawal (+) or Addition (-) 3	-9.469	-316	27,567	0.7
	.,	-010	21,501	83
) Total Petroleum Products Supplied for Domestic Use	465,985	15,533	5,024,713	15,044
) Finished Motor Gasoline	198,862	6,629	2,203,151	6,596
) Distillate Fuel Oil	86,371	2,879	874,871	2,619
) Residual Fuel Oil	40,731	1,358	463.502	1,388
) Liquefied Petroleum Gases	49,444	1,648	474,326	1,420
) Other4	88,648	2,955	987,295	2,956
Crude Oil	1,929	64	21,568	2,550 65
) Total Product Supplied	465,985	15,533	5,024,713	
(37) = (31) through (36)	,	10,000	5,024,710	15,044
Ending Stocks, All Oils				
Crude Oil and Lease Condensate (Excluding SPR)	341,483		241 400	
Strategic Petroleum Reserve (SPR)	371,291		341,483	
) Unlinished Oils	108,994	<del></del>	371,291	
Gasoline Blending Components	40,479		108,994	***
Natural Gasoline and Unfractionated Stream <sup>2</sup>	16,737		40,479	**
Finished Refined Products 3	631,289		16,737	
	いっしょとのか		631,289	
Total Stocks	1,510,273		1,510,273	

Note: Totals may not equal sum of components due to independent rounding. Sources and estimation procedures: See Explanatory Notes 1, 2 and 9.7.

<sup>1</sup> A balancing item.
2 Includes isopentane, natural gasoline, unfractionated stream, and plant condensate only.
3 For products included see Explanatory Note 9.7.
4 Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil and liquefled petroleum gases.

E = Estimated.

— Not Applicable.

Note: Totals may not equal sum of components due to independent regarding.

Table 2. Supply and Disposition of Crude Oil and Petroleum Products, November 1983 (Thousand Barrels)

			Supply							
Commodity	Field Produc-	Refinery			Unac-	apia	Original	Uisposition		;
	tion	tion	Spodim	orawai (+) or Addi- tion (-)	For Crude Oil1	Losses	Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 258,708	0	99,352	5,449	4.112	48	360.077	5 567		
Natural Gas Liquids and LRGs	4	10,361	5.830	4 120		? •	in in	oc'r	876'1	12,114
Infractionated Section 1	v	0	240	267	<b>ə</b> c	0 0	17,758	980	50,346	135,136
Plant Condenses	ï	٥	0	1.563	) C	<b>-</b>	5,927	0 (	90‡	6,118
Liduefied Petroleum Casas	;	0	193	-55	0	0 0	0 0	0 0	0 (	10,112
Ethane	₩.	10,361	5,398	2,345	0	0	10 844	080	7 77 7	507
Propane	8,659	711	1,690	470	0	0	81	AGE (S)	49,444	118,389
Butane	19,50 18,00 18,00	8,413	1,250	1,046	0	0	129	551	25,410	605,7
Butane-Propane Mixtures	0,342	1,082	1,595	3,286	0	0	6,827	429	5,249	23,223
Ethane-Propane Mixtures	9026	8 0	282	81	<b>O</b> 1	0	260	0	348	1.758
lsobutane	3,229	67	50	310	00	00	0 1,00	0 (	7,869	14,754
Other Liquids					,	>	3,347	<b>ɔ</b>	29	10,541
Other Hydrocarbons and Alcohol	1,492	0	9,226	3,850	0	0	20,446	0	-5.878	149 473
Unfinished Oils	26t.	<b>&gt;</b> c	1000	101	0	0	1,593	0	0	282
Motor Gasoline Blending Components	o c	> 0	589'	3,126	0	0	14,179	0	-3.364	108 994
Aviation Gasoline Blending Companie	> 0	<b>.</b>	1,537	587	0	0	4.638	· C	-2514	30,034
	>	0	0	36	0	0	36	0	0	287
Finished Petroleum Products	315	404 280	40 630	***	ď	•				ì
Finished Motor Gasoline	99	199,014	8,063	11,014	<b>&gt;</b> c	۰ ۵	0	13,832	419,588	512,890
Finished Leaded Motor Gasoline	4	86,262	3.820	12.52 828 828	> <	<b>&gt;</b> 0	0	99	198,862	196,036
Finished Adation Cacalina	19	112,752	4,243	-5,581	0	o c	<b>&gt;</b>	ဖ္တ ဇ	87,429	96,400
Naphba-Tipo 10t E.o.	104	604	<b>P</b>	33	0		o c	0 0	554,111	99,636
Kerosene-Tvne Jet Fliet	0 (	6,095	0	-518	0	0	0	<b>&gt;</b> C	740 5 577	2,410
Kerosene	<b>5</b> (	26,190	250	-1,978	0	0		373	086.46	240,00
Distillate Fuel Oil	nc	3,867	723	-12	0	0	0	2	4.579	912.01
Residual Fuel Oil	o c	00,370	5,663	1,946	0	0	٥	1,614	86.371	161.339
Naphtha < 400 Deg. for Petro. Feed, Use	· c	2,885	43,317	-3,042	0 (	0	0	4,998	40,731	54,462
Other Oils > 400 Deg. for Petro. Feed. Use	0	7.952	700	<u>.</u>	<b>&gt;</b> (	0	0	175	4,452	1,797
Special Naphthas	90	1.763	1 254	90.5	> <	0	Φ,	516	7,358	2,004
Lubricants	0	5.167	202	000	> 0	<b>&gt;</b> (	0	54	3,468	3,079
Waxes	0	503	3 6	) 1 1 1 1	<b>&gt;</b> c	<b>)</b>	0	405	4,118	11,485
Petroleum Coke	0	13 715	3 5	7	> 0	<b>.</b>	0	24	463	790
Asphalt and Road Oil	0	9,891	2 2	70 <del>1</del>	<b>&gt;</b> c	0 0	0 (	5,556	8,203	5,506
Still Gas	0	17,535	9 0	3 0	> <	<b>-</b>	0 (	4	10,489	15,758
Miscellaneous Products	58	2,269	180	-216	<b>,</b> 0	<b>-</b> c	<b>)</b>	O g	17,535	0 !
Total					,	>	>	9	2,233	2,117
VKI	309,288	414,641	155,047	1,605	4,112	48	398,281	20.379	465 985	1 510 979
I Inspection for the A. S. A. S.									777	6,010,610

Unaccounted for crude oil is a balancing item.
 Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 3. Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products, January - November 1983 (Thousand Barrels)

			Supply					i di di di di		
								Uisposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- fion (-)	Unac- counted For Crude Oilr	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 2,892,395	0	1,105,778	-68,903	62.218	494	3.912.416	57.011	94 568	12.5
							200	10,20	2 1,306	112,114
Natural Garding and LRGs	519,165	109,325	66,400	-20,950	0	0	152,375	24.730	496.835	135 136
I feed the state of the sopeniane	81,363	0	2,359	-131	0	0	61,104		22 487	2,13
Dist Course Stream	6,242	0	0	-6,073	0	0	169	) C		0 0
ram condensate	7,097	0	2,288	935	0	0	10.298		, ,	10,112
Liquened Petroleum Gases	424,463	109,325	61,754	-15,681	0	0	80 804	002.76	377	700
Ethane	86,285	5,452	15,131	-1.634	· c	· c	028	24,130	474,320	118,399
Propane	149,100	89,601	14,161	-2.281	) C	o c	1 202	207.44	455,400	7,605
Butane	68.498	12.768	15.439	B 544		<b>.</b>	DDD.	14,735	234,453	60,518
Butane-Propane Mixtures	1 787	1 215	2007	100	<b>&gt;</b> 6	<b>)</b>	46,992	9,964	33,207	23,223
Ethane-Propane Mixtures	101.1 087.340	נואר	5,703	367	0 (	0	2,653	0	6,425	1,758
Isobutane	20,10	0 00	515,11	-3,472	0	0	48	0	95,133	14.754
***************************************	31,453	687	0	-2,120	0	0	28,848	0	774	10,541
Other Liquids	17 853	c	07 007	4	•					
Other Hydrocarbons and Airobot	47.050	•	195110	100.1-	<b>&gt;</b>	0	160,624	0	-56,435	149,473
Lofinished Oils		<b>-</b>	0	29	0	0	17,882	0	0	282
Motor Coolin Coo	<b>&gt;</b> '	0	76,964	-3,717	0	0	101,691	0	-28.444	108 994
Anaton Capilla District	0	0	11,022	1,832	0	0	40,363	0	-27.509	39.910
Aviduoti casoline diending Components	0	0	-	202	0	0	688		689	700
						•	}	•	201	ò
Finished Petroleum Products	4,013	4,277,760	406,034	43,248	6	-	•	160 240	4 569 746	000
Finished Motor Gasoline	727	2,114,725	84.166	6.501	· c	• •	<b>3</b> C	100,510	4,362,746	512,890
Finished Leaded Motor Gasoline	493	948.075	44 04D	5.755	o c	0 0	0 0	2,368	2,203,151	196,036
Finished Unleaded Motor Gasoline	234	1.166.650	40 126	2,735	0 0	> 0	<b>&gt;</b> (	2,368	995,395	96,400
Finished Aviation Gasoline	1 125	200011	0710	<b>P</b> 6	<b>.</b>	<b>-</b>	0	0	1,207,756	99,636
Naphtha-Type Jet Fuel	67.	264,1	20	9 !	5 (	0	0	0	8,734	2,410
Kerosene-Type Jet Fuel	•	374.700	2	, to	<b>&gt;</b> (	0	0	201	68,709	6,642
Kerosene	- 6	26.4,133	9,105	-1,245	<b>o</b>	0	0	1,496	275,164	39,246
Distillate File Oil	ò ;	20,000	3,029	5/3	0	0	0	294	39,350	10,219
Residual First Oil	=	817,283	55,063	24,240	0	0	0	21,727	874,871	161,339
Naohtha / 400 Der for Detro East 100	9	772,182	231,584	13,767	0	٥	0	63,126	463,502	54,462
Other Oils / 400 Des for Date Cond The	> <	45,879	4,337	170	0	0	0	1,666	49,720	1,797
Special Nantitias	0 000	796,387	181	176	0	0	0	4,962	82,362	2,004
Libricante	800°	18,5/3	7,620	395	0	٥	0	1,003	26,654	3,079
Massa	0	49,059	2,648	1,696	0	0	0	5,289	48,114	11.485
Date Land Anti-	0	5,034	273	7	0	0	0	255	5.048	790
Perchella Coke	0	139,688	0	1,215	٥	0	0	64 729	76 174	5,506
Asphait and Hoad Oil	0	128,224	2,414	1,511	0	0	0	255	131 894	15.758
Still Gas	٥	184,127	0	0	0	. 0	0	3 -	184 197	2
Miscellaneous Products	1,043	19,265	5,400	-198	0	0	0	339	25.171	2.117
Hot		1								i
10.04	3,433,426	4,387,085	1,666,200	-48,256	62,218	494	4,225,415	250,051	5,024,713	1,510,273
1 Unaccounted for colde oil is a balancing item										

Unaccounted for crude oil is a balancing item.
 Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 4. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 1983 (Thousand Barrels per Day)

Field Production from tion tion tion tion tion tion tion tion	Stock With- Hoorts drawal (+) or Addi- 194 137 8 9 0 52 6 6 -2 180 78 56 -16 42 35 53 110 10 3 19 -64 0 10 308 128 0 3 256 104 51 20	Unac Counting Ogi1	Crude Losses 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hefinery Inputs 592 592 198 0 0 33 361 228 228 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 Exports 33 33 33 33 34 18 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Products Supplied 64 1,678 30 0 (s) 1,648 355 847 175 175 262 2
Field Perfect.   Production from tion tion tion tion tion tion tion tion			Crude Losses	Hefinery Inputs 12,003 198 0 33 33 361 228	Exports 33 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Supplied Supplied Supplied 64 64 64 64 64 64 64 64 64 64 64 64 64
1626 345	co p	751	N 000000000	12,003 592 198 0 33 361 361 228 228	33 33 36 6 6 8 7 8 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 1,678 30 0 (s) 1,648 350 847 175 12 262 2
1,626   345   24		• • • • • • • • • • • • • • • • • • • •	v 00000000000	592 592 198 33 33 34 228 228 5	86 80 (8) 81 41 00 00	64 1,678 30 0 (s) 1,648 350 847 177 175 12 262
1,626     345       211     0       -52     0       -52     0       -52     0       -53     345       -53     24       -513     280       218     36       -513     280       -513     280       -513     280       -513     280       -50     0       -624     2       -634     2       -634     2       -634     2       -788     1       -789     13       -789     1       -789     1       -780     8       -78		•••••••	0000000000	592 198 33 361 361 228 20 0		1,678 30 0 (s) 1,648 350 847 175 12 2
211 0 0 2,672 0 0 2,673 345 24   218 289 24   218 36 24   218 36 24   218 36 24   218 36 24   218 36 24   218 36 24   218 36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		000000000000000000000000000000000000000		282 198 33 361 361 27 85 9		1,678 30 0 (s) 1,648 350 350 175 175 12 2
-52 0 28 0 24 24 218 280 24 28 36 24 28 36 24 28 24 24 28 24 24 24 24 24 24 24 24 24 24 24 24 24	· - · · · ·			33 33 36 36 28 29 30 30 30 30 30 40 30 40 40 40 40 40 40 40 40 40 40 40 40 40		30 (s) 0 1,648 350 350 175 175 125 2
289 24 289 24 513 280 218 36 513 280 218 36 307 0 307 0 307 0 308 22 308 24 308 24 308 3 309 0 309 0	1 - 1		00000000	22 36 4 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		(s) 1,648 350 847 175 12 262 2
1439 345 245 289 245 289 248 248 248 248 248 248 248 248 248 248		0000000 0000	• • • • • • • •	33 361 33 228 9		(s) 1,648 350 847 175 1262 262
1,535   345   246   247   24		000000 0000	000000	361 228 9		1,648 350 847 175 1262 262
513     289       513     280       513     280       513     280       513     280       50     0       50     0       60     0       7     0       8     0       8     0       9     2       11     13,476       14     2,875       1     2,875       1     2,875       1     3,758       1     3,758       1     3,758       1     3,758       1     3,758       1     129       1     3,758       1     129       1     2,679       1     130       1     130       1     2,679       1     130       1     2,679       1     130       1     2,679       1     3       2     3       2     3       3     59       4     172       5     172       6     172       7     172       8     172       8     172       9     172		00000 0000	000000	£ 4 8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		350 350 847 175 12 262 2
513 280 36 36 36 37 307 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		00000 0000	00000	228 4 0		250 175 12 262 262
Second Property   Second Pro		0000 0000	0000	228 4	<u> </u>	175 175 12 262 2
5 3 3 3 5 3 3 3 5 5 4 3 3 3 4 3 4 4 5 4 5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0000	0 6 0 9	4000	175 12 262 2
307 00 108 2 1 1 13.476 1,3 2 1 1 13.476 1,3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		000 0000	000	, ,	000	12 262 2
50 0 3 50 0 2 50 0 0 2 50 0 0 0 2 50 0 0 0 2 50 0 0 0 0 50 0 0 0 0 50 0 0 0 0 50 0 0 0		90 <b>9</b> 000	00	0 ;	00	262 2
50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0000	0	0	c	Ø
50         0           50         0           6         0           7         11           13,476         1,           2         6,634           1         2,875           1         2,875           1         3,758           2         0           3         20           6         873           8         0           8         0           129         129           130         130           10         130           172         59           172         59           172         59		8000		811	,	
S		• • • •				
S		000	0	682	0	-196
S     0     0       S     0     0       S     0     0       11     13,476       2     6,634       1     2,875       3     20       6     3     20       873     129       873     129       884     848       88     0     2,679       9     2,679       10     130       10     130       172     172		00	0	23	0	C
5     0     0       6     0     0       11     13,476       6     6,634       1     2,875       1     3,758       2     20       2     20       3     20       6     873       8     129       8     129       8     129       9     2,679       10     130       10     130       10     172		c	0	473		1113
11   13,476   15,476   16,534   17,58   17,5		•	0	155	o c	7 8
11 13,476		0	0	-	· c	,
13.476   13.476   13.476   13.476   13.476   13.758   1					•	•
		0	0	o	461	13 086
	269 –274	0	0			6,530
		0	c		1 6	20,0
(s) 20 (6) 203 (7) 203		0	• =		N C	7 .
(s) 203 (s) 873 129 (m) 0 2,679 (m) 0 130 (m) 130 (		Ċ	• •	o c	<b>o</b> c	4 7 6
(s) 873 (m) 69 873 (m) 0 2,679 (m) 0 130 (m) 0 265 (m) 3 59 (m) 0 172	0	· c	· c		> 0	8 5
(5) 129 (7) 2,679 (8) 2,679 (9) 848 (9) 130 (9) 265 (9) 265 (9) 172	18		> 0	> 0	> (	30
0 2,679 0 848 0 130 0 265 3 59 0 172	24 (5)	<b>,</b>	<b>&gt;</b> 0	5 (	ב בי	813
		> 0	5 (	<b>&gt;</b>	(s)	153
	55.	<b>&gt;</b> (	o ·	0	72	2,879
3 59 0 172		<b>D</b> (	0	0	167	1,358
0 60 6	4	<b>-</b>	0	0	9	148
, o	ල 0 :	0	0	0	17	245
0	42 14	0	0	0	2	116
	7 -28	0	0	0	. E	137
0	1 - 2	0	0	0		, t.
0	0	0	0	0	185	27.0
0	1 20	0	0			250
0 585 0 585 0	0	0	· c	· c	C	200
2 76	2-7	0	0	0 0	· •	363 75
						2
10,310 13,821 5,168	168 54	137	8	13.276	629	15 533

Unaccounted for crude oil is a balancing item.
 (s) Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January - November 1983 (Thousand Barrels per Day)

Perfinency   Perfinency   Production   Pro				SCOOL					Disposition	
1,554         327         199         -63         0           1,254         327         199         -63         0         0           2,4         0         7         (*)         0 <th>Commodity</th> <th>Field Produc- tion</th> <th>Refinery Produc- tion</th> <th>Imports</th> <th>Stock With- drawal (+) or Addi- tion (-)</th> <th>Unac- counted For Crude Oil1</th> <th>Crude Losses</th> <th>Refinery Inputs</th> <th>Exports</th> <th>Products Supplied</th>	Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Crude Losses	Refinery Inputs	Exports	Products Supplied
1554   327   199   -63   0   0   0   0   0   0   0   0   0	Crude Oil (including lease condensate)	E 8,660	0	3,311	-206	186	-	11,714	171	65
1271   227   25   25   25   25   25   25   2		7 22 7	100	00	5	•	c	ASE	74	1 488
12   12   13   14   15   15   15   15   15   15   15	Natural Gas Liquids and Links	1,334	357	CC -	S (S)	0	• •	183	0	., 67
Part of the control	Natural Gasoline and Isopeniane	ţ.º	o C	- 0	-18	0	0	}	0	0
aum Gases         1271         327         185         -47         0           268         46         268         45         -5         0         0           205         38         46         -5         0 <td< td=""><td>Plant Condensate</td><td>. 53</td><td>0</td><td>^</td><td>i w</td><td>0</td><td>0</td><td>3.</td><td>0</td><td>(s)</td></td<>	Plant Condensate	. 53	0	^	i w	0	0	3.	0	(s)
258         16         45         -5         0           e Mixtures         265         38         42         -7         0           e Mixtures         265         4         17         1         0         0           e Mixtures         261         34         17         10         0<	Liquefied Petroleum Gases	1,271	327	185	47	0	ó	242	74	1,420
Wixtures   265   38   45   -27   1   1   261   1   261   1   261   1   261   1   261   2	Ethane	258	16	45	ነ የ	0 (	0	m •	(S)	312
be Mixtures 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.0	Propane	948	568	7 4	) F	<b>5</b> C	0 0	4 14	<b>\$</b> 8	ZO/
Mixtures   Sign   Sig	Butane Descriptions Michigan	8 0 u	, 0 4	5 <u>†</u>	Q <del>+</del>	· c	0 0	- co	30	19
State   Stat	Ethana Dropana Mixtures	261	t C	. 4E	-10	0	0	(s)	0	285
53         0         263         -5         0 <td>Isobutane</td> <td>94</td> <td>-</td> <td>Q</td> <td>φ</td> <td>0</td> <td>0</td> <td>86</td> <td>0</td> <td>7</td>	Isobutane	94	-	Q	φ	0	0	86	0	7
oons and Alcohol         53         0         (s)         -11         0         0         230         -11         0 <td></td> <td>23</td> <td>•</td> <td>263</td> <td>ų.</td> <td>5</td> <td>c</td> <td>481</td> <td>0</td> <td>-169</td>		23	•	263	ų.	5	c	481	0	-169
tts   0   0   230   -11   0   0   0   33   5   5   0   0   0   0   0   0   0   0	Other Liverschop and Alcahol	8 2	0	2		• •	0	5,	0	0
tis	Unforcebad Oile	0	0	230	7	0	0	304	0	-85
12 12,808 1,216 129 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Motor Gasoline Blending Components	0	0	33	ເດ	0	0	121	0	-82
12 12808 1,216 129 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aviation Gasoline Blending Components	0	0	(s)		0	0	2	0	٦
(a) 252 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Einished Detroleum Droducts	12	12.808	1.216	129	0	0	0	504	13,661
(s) 2,439 132 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Enished Motor Gasoline	i ca	6,332	252	19	0	0	0	ത	6,596
(s) 22 1 (s) 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Finished Leaded Motor Gasoline	-	2,839	132	17	0	0	0	თ	2,980
(s) 222 1 (s) 2 205 0 2 (s) 823 27 -22 0 0 0 823 27 -22 0 0 0 842 693 41 0 0 0 140 13 1 0 0 0 140 13 1 0 0 0 147 8 5 0 0 0 15 1 (s) 0 0 0 16 15 1 (s) 0 0 0 17 1 (s) 0 0 0 18 1 1 0 0 0 18 1 1 0 0 0 19 1 1 1 0 0 0 19 1 1 1 0 0 0 10 1 1 1 0 0 0 11 1 0 0 0 0 12 1 1 0 0 0 13 1 1 0 0 0 14 18 0 0 0 0 0 15 1 1 0 0 0 0	Finished Unleaded Motor Gasoline	-	3,493	120	7	0	0	0	0 0	3,616
(s) 205 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Finished Aviation Gasoline	ო	72	-	(S)	0	5	<b>-</b>	<b>&gt; •</b>	902
(s) 2,447 165 73 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Naphtha-Type Jet Fuel	o 3	202	0 6	N 60	<b>5</b> C	<b>&gt;</b> C	00	- ♥	824
(s) 2,477 165 73 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kerosene- Iype Jet Fuel	<u> </u>	108	3 °	2	o c	• •	• 0		118
9 260 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Nerosene Contract Con	<u> </u>	2 447	165	1 52	0	0	0	65	2,619
140     13     1     0     0       260     1     1     0     0       147     8     5     0     0       15     1     (s)     0     0       15     1     (s)     0     0       16     16     0     0     0       16     16     -1     0     0       16     -1     0     0     0       16     -1     0     0     0       16     -1     0     0     0       16     -1     0     0     0       17     0     0     0     0       18     -1     0     0     0       18     -1     0     0     0       18     -1     0     0     0       18     -1     0     0     0       18     -1     0     0     0       18     -1     0     0     0       18     -1     0     0     0       18     -1     0     0     0       18     -1     0     0     0       18     -1     0     0     0       19	Desidual Fuel Oil		842	693	4	0	0	0	189	1,388
3 56 23 1 0 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 0	Nachtha / 400 Dec for Petro Feed Use	0	140	13	-	0	0	0	2	149
3 56 23 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Other Oils / 400 Dea for Petro Feed Use	0	260	-	-	0	0	0	15	247
0 147 8 5 0 0 0 1 15 1 (s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Special Nachthas	· m	56	ន	-	0	0	0	ო	80
0 15 1 (3) 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	147	60	70	0	0	0	16	144
0 418 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Waxee	0	51	-	(8)	0	0	0	•	15
3 58 16 -1 0 0	Petroleum Coke	0	418	0	4	0	0	0	194	228
3 58 16 -1 0 0	Asphalt and Road Oil	0	384	7	មា	0	0	0	•	395
us Products	Sull Gas	0	551	0	0	0	0	٥ (	<b>5</b>	במי במי
	Miscellaneous Products	es	28	16	7	0	0	9	-	(2)
13,135 4,989 -144 186 1	Total	10,280	13,135	4,989	-144	186	-	12,651	749	15,044

Unaccounted for crude oil is a balancing item.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 6. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, November 1983 (Thousand Barrels)

			Su	Supply				ä			
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oii1	Net Receipts	Crude Losses	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 2,244	0	21,995	1,037	-664	2 605		10000	,		
Natural Gas Liquids and LRGs	893	1,036	857	353	0	2,732	• •	487	0 4	0 0	14,233
Other Products2		000	576 281	356 -3	00	2,732	000	345	32.6	4,975	5,813 5,775
Other Liquids Other Hydrocarbons and Alcohol	£ ;	0	2,805	1,432	0	, <u>r</u>	· c	4	<b>o</b> (		ඝි
Unfinished Oils	ပ္ င	0 0	0 100	29	0	; °	0	9, 10 i	<b>~</b> C	-1,900	19,073
Motor Gasoline Blending Components	0	0	579 579	1,278	00	-159	0 (	5,181	0	-1,837	14,436
Compared organical comparents	0	0	0	52	<b>,</b> 0	9 0	0	82 <u>6</u>	00	\$ .	4,579
Finished Petroleum Products	53	34,361	35,534	-3.181	c	75 256	• (	ă i	>	5	0
Finished Leaded Motor Gagolina	23	16,624	7,416	-1,880	0	44 994	<b>5</b> C	- <	376	141,657	185,990
Finished Unleaded Motor Gasoline	8 <del>1</del>	5,812	3,436	1,079	0	15,604	o c	<b>&gt;</b> C	N C	67,205	58,980
Finished Aviation Gasoline	<u> </u>	10,812	3,980	-2,959	0	29,390	0	0	NC	25,963	27,388
Naphtha-Type Jet Fuel	> c		r (	0	0	190	0	0	o c	242,14	395,15
Kerosene-Type Jet Fuel	0	453	0 6	999	0	678	0	0	0	1 275	440 640
Nerosene Distillato Guel Osi	0	463	723	-349	0 0	9,232	0	0	122	9,063	10,969
Residual Fuel Oil	0 (	7,155	4,871	3,775	0	16 130	<b>&gt;</b> c	0 0	(s)	1,460	4,537
Naphtha and Other Oils for Petro, Feed	0 0	2,876	20,946	-4,042	0	1,863	0	<b>)</b> C	- 2	31,930	70,839
Special Naphthas	0		7549	1 62	0	83	0	0	62	464	58,548 00
Lubricants	Ó	828	7 2	77		327	0	0	ო	1,191	766
Dates of the Contraction of the	0	92	2	3	> 0	24,	0	0	124	1,147	3,339
Asobalt and Dond Ou	0	1,020	0	-70	> c	<b>-</b>	0 0	0	4	106	159
Still Gas	0	2,027	16	833	o	25.	> 0	<b>o</b> c	98 1	914	1,162
Miscellaneous Products	0	1,647	0	0	0	}	0 0	<b>-</b>	~ 0	3,133	4,286
***************************************	0	185	*	-98	0	20°	0	<b>-</b> C	<b>ာ</b> ဇ	1,647	٥ ;
Total	3,205	35,397	61 190	-350	***			•	2	077	<del>7</del>
				ŝ	\$	80,552	0	33,805	401	145,115	225,109
. Unaccounted for crude oil is a balancing item								ļ			

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 7. PAD District II, Supply and Disposition of Crude Oil and Petroleum Products, November 1983
(Thousand Barrels)

	4		•	,							
	and the		ns.	Supply				Disp	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 31,320	0	18,866	738	32,259	1,970	0	84,905	248	0	73,553
Natural Gas Liquids and LRGs	9,926	2,338	3,811	943	0	5.159	0	6.160	Ŧ	16.006	42 091
Liquefied Petroleum Gases	10,038	2,338	3,811	531	0	3,549	0	4,425	=	15,831	36.809
Other Products <sup>2</sup>	-112	0	0	412	0	1,610	0	1,735	0	175	5,282
Other Liquids	378	0	261	132	0	1,260	0	2.389	0	-358	25,936
Other Hydrocarbons and Alcohol	378	0	0	17	0	0	0	395	0	0	119
Unfinished Oils	0	0	212	116	0	m	0	969	0	-359	18.169
Motor Gasoline Blending Components	0	0	49	-27	0	1,251	0	1,272	o	-	7.564
Aviation Gasoline Blending Components	0	٥	0	56	0	0	0	26	0	0	8
Finished Petroleum Products	7	94,629	799	-5,173	0	21.752	0	0	389	111.626	129.811
Finished Motor Gasoline	0	53,893	29	-3,125	0	12,677	0	0	C	63.512	60.849
Finished Leaded Motor Gasoline	0	25,558	51	-2,096	0	6,135	0	0	0	29,648	31,009
Finished Unleaded Motor Gasoline	0	28,335	15	-1,029	0	6,542	0	0	0	33,863	29,840
Finished Aviation Gasoline	0	112	0	42	0	115	0	0	0	185	601
Naphtha-Type Jet Fuel	0	923	0	06	0	142	0	0	0	1,155	1,663
Kerosene-Type Jet Fuel	0	4,015	0	-218	0	1,662	0	0	0	5,459	8,222
Kerosene	0	805	0	193	0	46	0	0	-	1,043	2,197
Distillate Fuel Oil	φ,	20,277	252	-1,953	0	609'9	0	0	-	25,184	42,724
Hesidual Fuel Oil	φ (	2,095	346	184	ο.	-332	0	0	0	2,293	3,635
Naphtha and Other Oils for Petro. Feed.	0	998	18	-55	0	ത	0	0	35	836	235
Special Naphthas	0	495	8	65	0	197	0	0	4	786	265
Lubricants	0	762	12	-95	0	282	0	0	22	939	2,076
Waxes	0	<b>5</b>	က	•	0	0	0	0	-	48	76
Petroleum Coke	0	3,250	0	4	0	0	0	۰.	318	2,973	626
Asphalt and Road Oil	0	3,413	ო	-281	0	273	0	0	4	3,403	6,085
Still Gas	0	3,515	0	0	0	0	0	0	٥	3,515	0
Miscellaneous Products	7	<b>1</b>	2	7	0	72	0	0	N	293	225
Total	41,631	96,967	23,738	-3,360	32,259	30,141	0	93,454	648	127,274	271,391

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unifactionated stream, and plant condensate.
 Less than 500 barrels.
 E Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 8. PAD District III, Supply and Disposition of Crude Oil and Petroleum Products, November 1983 (Thousand Barrels)

			,								
			no.	Nddns.				Disp	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi-	Unac- counted For Crude	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	. E 124,098	0	52,401	3,550	-25,029	16.381	7%	171 340		8	
Madernal Control of the state o							i	740.1	>	35	528,630
Natural Gas Liquids and LRGs		6,000	293	2,539	0	-6,477	0	9.802	728	26.265	97.50
Other Products2	3.585	6,000	293	1.184	0	-6,177	0	5,133	728	26,324	71,966
		•	>	1,355	0	-300	0	4,669	0	-29	10,792
Other Liquids		c	200	0000	•						
Other Hydrocarbons and Alcohol	. 603	· c	3	4,000	<b>5</b> (	802'L-	0	11,957	0	-4,624	67,995
Unfinished Oils		•	0074	0 00	<b>-</b>	0	0	619	0	0	101
Motor Gasoline Blending Components		0	0,100	2,233	ο.	150	0	8,643	0	-1,071	48.873
Aviation Gasoline Blending Components		<b>-</b>	4 ZO	68	0	-1,359	0	2,703	0	-3.553	18 838
The state of the s		0	0	φ	0	0	0	Φ.	0		183
Finished Petroleum Products	245	194.294	2 982	1	•	000	•		•	•	3
Finished Motor Gasoline	C	00 00	100	200	<b>3</b> (	20001-	>	0	6,901	89,389	132,261
Finished Leaded Motor Gasoline		1000	200	-2,100	0	-59,510	0	0	6	30,556	51,150
Finished Intended Motor Corpline		088'/5	199	-839	0	-22,676	0	0	6	14 503	25.254
Finished Aviation Casolino	,	54,154	0	-1,267	0	-36,834	0	0	Ċ	16.053	25,000
Nobbbo Tues let fine	104	383	0	α,	0	-305	٥	c	o c	000	0000
יייייייייייייייייייייייייייייייייייייי	0	2,690	٥	-577	0	-931	C	· c	•	0 0	0 0 0
Aerosene-Type Jet Fuel	0	14,674	57	-543	0	-11 490	o c	o c	9 60	7.0	2,349
Nerosene	e	2,526	0	27	0	-669		o c	900	7,48	12,847
Distribute Fuel Off	0	38,303	257	830	٥	-23.010	· c	o c	(6)	1,00,1	3,094
Residual Fuel Oil	0	10,820	1,487	1,117	0	-1.742	o c	o c	2324	0,0,0	33,78
Naphina and Other Oils for Petro. Feed.	0	9,842	360	293	C	6	· c		7,07,4	000	12,432
Special Naphthas	6	1,171	464	224	· c	205	• •	0 0	ָהָ יִּרְ מַרְיִי	00,00	2,765
Lubricants	0	3.179	42	-337		200	0	<b>o</b> (	<del>0</del> į	50°.	1,460
Waxes	c	700	i L	3 5	<b>5</b> 6	470'I-	<b>5</b>	<b>&gt;</b>	178	1,682	4,800
Petroleum Coke	•	1000	- (	ì	<b>o</b>	<b>-</b>	٥	0	5	238	503
Asphalt and Road Oil	0	0000	<b>&gt;</b> (	-139	0	0	0	0	3,021	2,736	1.648
SEE Gas	> 0	2,336	<b>o</b> (	233	0	-537	0	0	(s)	2,092	3.341
Michael Canada Conditions		3,355	0	0	0	0	0	¢	<b>C</b>	8.366	-
wiscellareous rioducts		1,720	109	-141	0	-227	0	0	<del>.</del> π	1,494	1,245
Total	150 416	700 000	100	, ,							
	21 5621	\$67°007	61,285	7,261	-25,029	-91,378	27	193,101	7,629	111,092	811,644

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 9. PAD District IV, Supply and Disposition of Crude Oil and Petroleum Products, November 1983 (Thousand Barrels)

Field Refinery Imports Stock With- Production tion from the form of the following the following from the following the following from the followin		_		200	Disposition		
E 16,245         0         1,257         -277           2,541         90         549         9           1,010         90         398         9           1,011         90         398         9           1,011         90         398         9           1,011         90         398         9           0         0         0         0           0         0         0         0           0         0         0         348           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0 <td>Unac- counted For Crude R Oii1</td> <td>Net Receipts</td> <td>Crude Losses</td> <td>Refinery</td> <td>Exports</td> <td>Products Supplied</td> <td>Ending Stocks</td>	Unac- counted For Crude R Oii1	Net Receipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
2,541     90     549       1,010     90     398       1,531     0     151       0     0     0       0     0 <td< td=""><td>-4,112</td><td>0</td><td>0</td><td>13,106</td><td>0</td><td>7</td><td>13,166</td></td<>	-4,112	0	0	13,106	0	7	13,166
1,531 90 398 1,531 0 151 1,531 0 151 1,531 0 151 1,531 0	0	-1,414	0	541	0	1,234	1,150
10   13,462   149   -1,	00	-104	00	383	00	1,020	280
10   13,462   149   -1,     10   13,462   149   -1,     11   13,462   149   -1,     12,503   142   -1,     13,462   149   -1,     14,62   149   -1,     15,796   42   -1,     16,796   42   -1,     17   4,287   42   -1,     18   18   18   28     19   19   -1,     19   19   19   19     10   19   19   19     10   19   19     11   19   19     12   19   19     13   19   19     14   18   19     15   19   19     16   19   19     17   19   19     18   19   19     19   19   19     19   19	>	ار ا	>	000	,	<u> </u>	080
10   13,462   149   -1,     10   13,462   149   -1,     11   13,462   149   -1,     12,503   142   -1,     13,462   149   -1,     14,62   149   -1,     15,796   42   -1,     15,796   42   -1,     15,796   42   -1,     15,796   42   -1,     15,796   -1,     15	0	0	0	-466	0	490	4,815
10   13,462   149   -14   -1	o	0	0	0	0	0	0
10   13,462   149   -1,	0	0	0	-185	0	292	2,845
10   13,462   149   -1,	0	0	0	-281	0	-67	1,970
10 13,462 149 -1, 6,796 42 -1, 7 4,287 42 -1, 7 4,287 42 -1, 7 4,287 42 -1, 2,89 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	0	0	0	0
7     6,796     42       7     4,287     42       82     0     28       9     385     0       9     562     0       9     3767     78       9     338     28       9     338     28       9     4     (s)       9     35     (s)       9     35     (s)       9     36     0       9     516     0       9     516     0       9     516     0	0	222	0	0	2	12,757	10,520
7 4,287 42 0 2,509 11 2,509 0 0 385 0 0 562 0 0 3,767 78 0 1 4 (8) 0 0 3 5 (8) 0 0 3 637 0 0 0 306 0 0 516 0 0 0 516 0	0	190	0	0	0	6,297	5,403
2,509 1 2 28 0 0 38 5 0 0 38 5 0 0 0 38 5 0 0 0 38 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	-94	0	0	0	3,702	3,458
28 0 0 388 0 0 362 0 0 3.767 78 0 0 3.8 28 0 0 4 (s) 0 0 36 (s) 0 537 0 0	0	284	0	0	0	2,596	1,945
385 0 562 0 3.767 0 3.38 0 1 78 0 28 1 0 1 0 0 35 0 35 0 306 0 537 0 516 0 516 0 516	0	0	0	0	0	30	28
0 562 0 3.767 78 0 338 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	-174	0	0	0	264	298
0 3,742 78 78 78 78 78 78 78 78 78 78 78 78 79 70 7 70 0 35 65 70 0 537	0	431	0	0	0	1,052	707
0 3.767 78 0 338 28 0 4 (s) 0 35 (s) 0 7 0 0 637 0 3 38 (s)	0	0	0	0	0	9	39
0 338 28 0 1 0 0 35 (s) 0 35 (s) 0 306 0 0 637 0 3 38 (s)	0	-225	0	0	0	3,431	2,821
ro. Feed	0	0	0	0	0	363	455
(s) 35 (s) 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	0	(s)	(s)	9
0 35 (s) 0 7 0 0 306 0 0 637 0 0 516 0	0	0	0	0	0	-	F
0 7 0 0 306 0 0 637 0 0 516 0	0	0	0	0	-	22	99
0 306 0 0 537 0 0 516 0 3 38 (s)	0	0	0	0	0	7	0
0 637 0 637	0	0	0	0	0	316	123
	0	0	0	0	-	388	527
3 38	0	0	0	0	0	516	0
	0	0	0	0	0	စ္တ	7
18,796 13,552 2,016 -1,390	-4,112	-1,192	0	13,181	8	14,487	29,651

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Secondaries.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 10. PAD District v, Supply and Disposition of Crude Oil and Petroleum Products, November 1983 (Thousand Barrels)

			Ŝ	Supply				Ç	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi-	Counted For Crude	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease and				tion (-)	,						
incoming rease condensate)	E 84,801	0	4,834	401	1,657	-20.956	7	63 607	1		
Natural Gas Liquids and LRGs	643	208						100,00	5,319	1,890	83,192
Other Products2	585	897	320	276 265	<b>0</b> C	0	0	268	215	1,453	3.324
	358	0	0	11	· 🙃	0 0	<b>-</b>	558	215	1,294	3,289
Other Liquids	906	•					)	2	>	159	35
Other Hydrocarbons and Alcohol	496	<b>-</b>	489	φ	0	0	0	465	c	Ž	
Motor Gasoline Blooding	0	0	> -		0 (	0	0	497	0	<u>.</u>	31,654
Aviation Gooding Diserting	0	a	488	- 0	<b>-</b>	0	o	-156	0	-655d	24 571
Components	0	0	3	0 4	<b>3</b> C	0 (	0	118	0	1.168	6,07
Finished Detroloum Dead			•	3	>	0	0	9	0		000
Finished Motor Gasoline	0	67,534	1,175	-1.218	c	0000	•			•	S
Finished Leaded Motor Gasolina	0	29,667	338	360	c	1 640	<b>o</b> (	Ö	6,165	64,160	54,308
Finished Unleaded Motor Gasolina	0	12,725	95	-232	0 0	2,0	> 0	0	m	31,291	19,654
Finished Aviation Gasoline	0 (	16,942	246	-128	· c	. a	> 0	о (	ო	13,613	9,291
Naphtha-Type Jet Fuel	0	89	0	63	C	2 0	> 0	0 (	0	17,678	10,363
Kerosene-Type Jet Fuel	0	1,464	0	48	· c	286	<b>-</b>	0	0	131	473
Kerosene	0 1	6,486	8	-366	0	165	> 0	<b>o</b> (	0	1,701	1,691
Distillate Fuel Oil	0 (	ਲ	0	129	0	?	> 0	<b>&gt;</b> (	45	6,324	6,501
Residual Fuel Oil	0 (	10,874	205	-517	0	496	<b>-</b>	<b>&gt;</b> c	• (	159	352
Naphtha and Other Oils for Petro. Feed.	0 0	9,325	509	-298	0	211	0	<b>&gt;</b> C	5.708	9,950	11,177
Special Naphthas	0 0	2 5	0 (	-178	٥	0	0	) C	4074	4,0,7	8,582
Lubricants	o c	700	27.	45	0	72	٥	¢	3 °	D 70	10.
Waxes	•	3 (	2	2	Q	0	0		٦ţ	20.	245
Petroleum Coke	<b>&gt;</b> c	2 2	ο,	-	0	٥	0	0 0		88.58 88.58	1,205
Asphalt and Road Oil		3,443	0	202	0	0	c		1 0	5 5	52
Still Gas	<b>&gt;</b> c	1,418	<del>,</del> (	55	0	0	0	o c	, 0, 10, 10, 10, 10, 10, 10, 10, 10, 10,	 	1,947
Miscellaneous Products	<b>.</b>	194.5	ο (	0	0	0	0	o c	- c	2,473	1,519
Ictol	>	201	Z	36	0	<del>4</del>	0	0	> 4	3,491 152	٥ و
Utdl	86,240	68,431	6,818	-547	1 657	40 400	ì	1		[	S
1 Unaccounted for carde oil is a halancing its						21.60	17	64,740	11,698	68,017	172,478

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Currently Available Month, 1 September 1983 (Thousand Barrels)

	Copporation	City	
PAD District and State	Total	Daily	PAD District and State
PAD District I		55	
Florida	1 56.	Cu	1 4 city C C 8 C
None Valle	01.1	7, 0	TAU DISHILL IN
NEW TOTAL	200	2 0	Colorado
Pennsylvania	E 352	E 12	Montana
Virginia	Е4	E 0	Utah
West Virginia	333	-	Myomino
A disobated to		•	
The state of the s	*	-	Adjustment 4
Total PAD District I	E 2,352	E 78	Total PAD District IV
PAD District II			PAD District V
Ilinois	2.460	8	Alacka
Indiana	000		
**************************************	907	4	South Alaska
Kansas	5,967	199	North Slope
Kentucky	647	22	Adiretment for Alacka2
	0000	100	
MICHIGAL	2907	50 11	i otal Alaska
Missouri	E 17	m -	Arizona
Nebraska	532	18	California
Modb Dabata	1464		Control Organia
ייים דו המצחת יייים ייים יייים ייים ייי	4	60 T	Central Coastal
Ohjo zamamamamamama ojilo	E 1,197	E 40	East Central
Oklahoma	13 049	435	ation
South Dakota	007		4.00
	3 :	ינ	
lennessee	98	m	Total California
Adjustment 2	184	တ	Nevada
Total PAD Dietrice II	F 21 /67	F 1 0/0	Adjustment for Arizona Colifornia and Mayords?
	Or Co	200	היים שלים יום מיווטוווים, כמווטווים, מווט ווכילים ב
			Total PAD District V
PAD District III			
Alabama	1.435	48	United States Total
Arkansas	E 1 549	E 52	
Conicians			ett) este de la main de la main este de la main de la company de la comp
Considera	470	,	יווים מסומים מוכווס לווושמווים מוסיומים לייים ליים לייים ליים לייים לייים ליים לייים לייים לייים לייים לייים לייים ליים ליים ליים ליים לייים ליי
Coast Coast	37,913	1,264	Alaska: 2,001;
Rest of State	2.810	94	California: Federal- 2,486, State- 3,140;
Total Louisiana	40.723	1.357	Louisiana Federal 25 860 State 2 149-
Medicina	200		Tourse Colour + Coo Otato 044.
MINDEREST INTEREST OF THE PROPERTY OF THE PROP	7,007	/0	exas: rederale 1,383, State-217;
New Mexico			U.S. Total- 37,446,
Northwestern	526	α̈́	2 These adjustments are used to recording the m
Contractor	200	0 0	
	2000	061	ופעפו אחוו ווופ טופופ ספופ אווו ווופ וויסבלפוו
lotal New Mexico	6,223	808	U.S. and Alaskan tigures shown in the Summa
Lexas			of this issue and with the PADD level figures p
TRRC District 01	1,999	29	previous issue. Final data at the State, PAD D
TRRC District 02	3321	111	national levels will be published without adjust
TRBC District 03	1000	242	Detrolain Simply Apprila
	10,202	24.5	בפוותובתיון כתלקוא ביווימשוי
IHAC District 04	2,261	15	Note: Total may not equal sum of components du
TRRC District 05	791	56	Sources: See Explanatory Notes on Data Collect
TRRC District 06, excluding East Texas	3,496	117	E = Estimated.
TDDC Diethick 07B	2 705	60	
11 10 Charles 070	2,000	กั	- במום ווכן מעמומטום.
THE DESIRE OF THE PROPERTY OF	2,824	47	
TRRC District 08	18,829	628	
THRC District 08A	18,415	614	
TODO Dispare no	2171	÷	
	1/1/0	3 (	
IRRC District 10	1,704	/c	
East Texas	4.168	139	
Total Teyas	74 056	2 459	
	2000	7.	
Toldouten and the second secon	13-		
I OTAL DISTRICT III	c 124,455	E 4,148	

E 205 E 696 E 217 1,119 2,837

E 6,145 E 20,891 E 15 E 6,510 33,561 71 -214 85,101

E 8,666

E 259,974

67 1,670 -15 1,722

2,015 50,111 -463 51,663 20

-Continued

Daily Average

Total

84 77 E 79 E 310 3 E 553

83 E 16,599

2,528 2,324 E 2,367 E 9,297

-	i includes the following offshore production (thousands of barrels):
	Alaska: 2,001;
	California: Federal- 2,486, State- 3,140;
	Louisiana: Federal 25,860, State 2,149;
	Texas: Federal. 1,593, State- 217;
	U.S. Total- 37,446,
N	These adjustments are used to reconcile the national and PADD
	level sums of the State data with the independently estimated
	U.S. and Alaskan figures shown in the Summary Statistics portion
	of this issue and with the PADD level figures published in a
	previous issue. Final data at the State, PAD District and
	national levels will be published without adjustments in the
	Petroleum Supply Annual.
2	Note: Total may not equal sum of components due to independent roun
(	

ee Explanatory Notes on Data Collection and Estimation, ted, available.

Table 12. Natural Gas Processing Plant Production of Petroleum Products by PAD District, 1 November 1983 (Thousand Barrels)

		24.0															
		TAU DISTRICT			PA	PAD District	t II				O VO						
Commodity	Coast	Appala- chian #1	Total	Appala- chian	Ind.	Minn. Wisc.,	Okla. Kans.,	Total	Texas	Texas	La. No. L		New	<u> </u>	PAD Dist. IV	PAD Dist. V	United
Natural Gas Liquids	384			,		Uaks.	Mo.		E E	Coast	Coast	Ark.	Mexico				States
Natural Gasoline and Isopentane			86	N 0	7,803 7,803	503	7,618	9,926	19,727	2,853	7,477	716		34,470	2.541		AE 779
Plant Condensate		148	148	CI.	563	66	-2,528	-1,864	11.365	611 -14 687	1,366	120		3,846	356		6.321
Liquefied Petroleum Gases	6.3		646	00	S 6	5 25	50	105	210	347	39	2 5		-883 622	1,051		-1,563
Propane	. 96		264	0	470	0	9,00,0 863	1,333	6,707	16,582	5,973	530		30,885	1,010		43,164
Butane Branco Mitter			105	00	509 96	190	3,147	3,846	2,605	4,997	1,985	161		7,045	17		8,659
Ethane-Propane Mixtures		00	0	0	80	90	9,230	1,492 6	933	2,383	697	207		4,472	280		6,542
Isobutane	. <u>4</u>	7	၁ မ	00	0 2	0 5	2,788	2,788	1,962	3,675	594	N ro	182	6.418	00	8 0	147
Finished Petroleum Products	G.	c	ť		;	<u> </u>	200	5/3	208	1,579	634	107		2,609	Ŋ		3,229
Finished Motor Gasoline	3.53	0	3 K	o c	ოდ	00	4 (	7	229	ဖ	-	7	~	245	ç	c	6
Finished Leaded Motor Gasoline	8 6	0	34	0	00	0	00	00	00	0 (	٥ (	0	0	i 5 0	<u> </u>	0	<u>2</u> 8
Finished Aviation Gasoline	ညှင	00	⊕ c	00	00	0 (	0	0	0	00	0	- 0	00	0 0	<b>~</b> c	0 0	4 ,
Naphtha-Type Jet Fuel Kernsene-Type Jet Eucl	0	0	0	0	0	00	0 0	00	<u>\$</u> °	0 (	0	0	0	5	0	<b>-</b> 0	90,
Kerosene	0 0	0 0	0 (	0	0	0	0	0	0	<b>&gt;</b> C	0 0	00	0 (	0	0	0	0
Distillate Fuel Oil	<b>&gt;</b> c	<b>-</b>	0 0	0	0	0	0	0	•	• 0	> c	<b>&gt;</b> c	<b>&gt;</b> (	0 0	0	0	0
Special Naphthas	<b>•</b> •	<b>&gt;</b>	<b>&gt;</b> c	<b>&gt; c</b>	0 0	0 (	0 (	0	0	0	0	0	V C	າ c	<b>&gt;</b> c	0 0	က
Miscellaneous Products	0	0	0	0	ე ო	0	<b>D</b> 4	٥ ٨	8 8	0 4	0 ,	01	0	9 6	0	0	⊃ 06
Total Production	737	Ç.	Č	•					5	>	-	_	0	48	က	0	28
	Ì	S	946	N	1,806	203	7,622	9,933	19,956	2,859	7.478	203	2 600 2	24.746	1		
Production represents quantity of natural das processing	3S Droces	Sing plant	plant Authors Joes	- Cari 200	1										7,551	243	49,088

1 Production represents quantity of natural gas processing plant output less input to fractionating facilities. Source: See Explanatory Notes on Data Collection and Estimation.

Table 13. Refinery Input of Crude Oil and Petroleum Products by PAD District, November 1983 (Thousand Barrels, Except Where Noted)

Mt.   Coast
Mt. 171,342 13,106
_
8 2,178
5,268
Coast 59,771
Coast 89.394
14.731
84.905
Mo. 18.884
Daks. 8.532
55.610
1.879
27.217
#1
24.732
Cride Oil finclind lease condensate) 24.732

<sup>1</sup> Represents gross input divided by operable capacity. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 14. Refinery Production of Petroleum Products by PAD District, November 1983 (Thousand Barrels)

	l <sub>q</sub>	PAD Distric	5		P4	PAD District	=======================================								ĺ		
Commodity	East	₹ t		Appala-	ind.	Minn.,	Okla.		1	Texas	5	UISTUCT III			PAD	PAD	
	Coast	-	000	chian #2	≣, Ky.	Wisc., Daks.	Kans., Mo.	Total	Inland	Gulf	Gulf Specific	No. La, Ark.	New Mexico	Total	Rocky	West	States
Liquefied Refinery Gases	1,015		-	38	1,708	25.	341	2 338		200	1000	1 :			M.	Coast	
For Other Uses			415	0	236	0	4	285		2, t	1,626	8 5	79	6,000	6	897	10,361
Ethane	3			88	1,472	242	301	2,053		1390	140	ביי היי	ې <del>د</del>	3,403	- 8	25	4,176
For Petrochemical Feedstock Use		<b>-</b>	00	0 0	φ.	0	0	0	0	669		ò	2 0	2,5397	g c	825	6,185
For Other Uses	0 0	<b>o</b> c	<b>&gt;</b> •	<b>\$</b>	0	0	0	0		374	i	o c	•	1 - 6	<b>&gt;</b> (	۰ د	711
Propane	931	2 5		0 8	0 !	0	0	0		325	, <del>C</del>	0	•	27.5	<b>&gt;</b> c	0 6	376
For Petrochemical Feedstock Use	352			9 0	70/.	242	411	2,398		2,357	1,411	20	4	4.095	17.	796	333
For Other Uses	579			9	7 7 7 7	) (	040	261		977	<b>5</b> 22	0	٥	1.245		8.8	1000
Ext Detached and	\$	0		30	2 1	7 0	2 2	2,13/		1,380	1,186	29	4	2,850	172	726	6.485
For Other Heat	8	0	8	0	0	0	ì	βσ	0 0	711-	1,403	£ 5	۲.	1,053	-56	67	1,082
Butane-Propage Mixtures	2	0		0	ζ.	0	-70	7.		707	904,	6	0 1	1,730	-	7	1,805
For Petrochemical Englands 12.	0	0	0	0	6-	0	0	• G		6 4	p c	ο «		-677	-27	65	-723
For Other Uses	0 (	0 (	0	0	0	٥	0	0	10	ξ =	o c	V C	5 °	8	မှ '	8	88
Isobutane for Petro. Feed, Use	<b>&gt;</b>	<b>-</b>	0 (	0	ရာ	0	0	ዋ	· CV	. <u>14</u>	•	9 0	,	<u>د</u>	<b>&gt;</b> (	0	0
Finished Motor Gasoline	15 500	2 5	0 00	0	15	0	0	15	0	525	0	, c	ā C	9 6	9	8 9	88 (
Finished Leaded Motor Gasoline	2005	250,1	15,524	991.	35,648	5,006	12,040	53,893	9,618	47,385	32,251	1.898	832	25 CB	6 70¢	00 567	29 00
Finished Unleaded Motor Gasoline	10.053	2 4	20,0	200	15,496	2,571	6,936	25,558	5,098	18,291	13,289	718	484	37,880	4 90 7		44,0
Finished Aviation Gasoline	3	5	2,0,0	944	20,152	2,435	5,104	28,335	4,520	29,094	18,962	1,180	398	15.45	001		202,00
Naphtha-Type Jet Fuel	203	5	53	; -	2 5	0 ;	on ;	112	8	224	126	0	0	383	n a		70/2
Kerosene-Type Jet Fuel	453	ļ	45.5	. 4	2 401	227	323	923	675	881	561	168	405	2,690	385		900
Kerosene	362	, 61	5 5		20617	4	2 6	4,015	601	7.011	7,033	က	8	14,674	562		26,190
Oistilate Fuel Oil	6,450	705	7,155	453	11 863	2 Z	) (1) (1)	3 202	27	1,349	1,130	56	φ	2,526	<u>4</u>		3.867
Noothe 100 B	2,725	151	2,876	88	1.426	200	9,00	20,277	7700	20,862	11,506	1,647	741	38,303	3,767		80,376
Naprina < 400 Deg. For Petro, Feed, Use	304	0	304	0	648	3 0	3 2	2007	210	0,402	3,484	256	g	10,820	338		25,454
Special Manhhan	c)	0	5	0	142	0	3 8	165	9 5	- r 80 2	29 6	97	0 (	2,692	٥		3,885
Inhrinante	9 9	8	36	0	316	0	179	495	2 2	9,0	900.	) <u>;</u>	0 0	7,150	-		7,952
Waxes	446	382	828	0	451	0	311	762	0.00	2.030	814	316	o c	2,17	4 1		1,763
Petroleum Coke	2 5	5 6	36	0 ;	4	0	3	45	ø	120	110	) C	· c	200	9 1		7,16/
Marketable	25.5	<u>o</u> c	020	3	2,247	416	564	3,250	289	2,955	2,534	90	, ¢	5 896	308		2003
Catalyst	9 6	φ	2 5	<b>⊃</b> ç	25	293	388	1,918	20	1,472	1,792	8	٥	3,404	138		2000
Asphalt and Road Oil	2,017	5 5	2027	3 6	010,1		9/2	1,332	233	1,483	742	25	12	2,492	168		5,383
Sul Gas	1,544	103	1.647	9 6	200	325	, t	4,0	£ (	341	50.	869	B	2,396	637		9.891
For Petrochemical Feedstock Use	306	0	306	0	3	3 0	è -	ດ້ວ	, 55 , 75 , 7	4,977	2,700	208	4	8,366	516		17,535
For Other Uses	1,238	103	1,341	. 2	2,390	322	727	2 512	ດ ຊີ	452	98	0 ;	0	543	<b>58</b>		927
Miscellaneous Products	146	39	185	က	77	3 5	4	153	72	4 0,40 0,40	2,614	208	4 (	7,823	488		809'91
Non-Fiel 1se	0 ;	23	21	0	ო	0	, œ	3 =	· 0	3 0	336	<u>n</u> c	20	1,720	38		2,269
	146	<u>ಹ</u>	164	က	74	34	4	152	7	928	315	၁ ထွ	0	382	4 5	, 58 58 58 58	402
Total Production	32,700	2,697	35,397	2,138	63.439	9 773	21.617	06 067	17 155 .		9						3
										176,001	06,432	/ L6,c	2,309 2	200,294	13,552 (	68,431 4	414,641
(+) <sub>1</sub>	-1,619	27	-1,592	9	-2,481	-385	-585	-3,513	54	-4,469	-2,707	-54	-17	-7,190	-371	-3.691	-16.360
Represents the anthronic different																	,

1 Represents the arithmetic difference between input and output.

Note: See Explanatory Note on negative production.

Source: See Explanatory Notes on Data Collection and Estimation.

Table 15. Percent Refinery Yield of Petroleum Products by PAD District, November 1983

	Q.	PAD District	-		PA	PAD District	=				PAD District	trict III			PAD	PAD	
		Appala-		Appala-		Minn.	Okla.			Texas	Ę,	11.14			Dist. IV	Dist. V	United
Commodity	Coast chian	chian #1	Total	chian #2	II. Ky.	Wisc., Daks.	Kans.	Total	l exas	Gulf	Gulf	No. La., Ark	New Mexico	Total	Rocky	West	States
The state of the s																	
Finished Motor Gasoline2	47.9	37.4	47.0	53.6	55.1	49.6	52.1	53.8	49.4	43.6	44.6	28.2	36.7	43.8	50.6	44.6	46.8
Finished Aviation Gasoline3	o:	φ.	0.	0	Ŋ	0	7	۳.	ςį	ιú	ci	O,	0.	ςį	어	Ξ.	κi
Liquefled Refinery Gases	3.4	ω.	3.2	2.0	3.0	2.9	9.	2.7	7	 	4.7	1.6	3,5	33	7.	1.4	2.8
Nachtha-Type Jet Fuel	5.0	1.6	2.0	4,1	۲.	4.	1.7	F	4.5	o;	οί	3.0	18.2	1.5	3.0	2.3	9.
Kerosene-Tvoe Jet Fuel	5	0	7.4	αÓ	5.3	4.6	3.3	4.7	4.0	7.2	11.6	Τ.	1.2	8.2	4.3	10.2	7.0
Kerosene	1.2	3.7	4.	5.9	Ξ	Ŋ	ςį	οί	ςį	4.	4.9	ιú	٠ دن	1.4	က	o,	1.0
Distillate Fuel Oil	21.7	26.1	2	24.0	21.1	27.5	29.6	23.7	23.6	21.6	19.0	29.8	33.3	21.3	29.5	17.2	21.5
Residual Fuel Oil	9.2	5.6	8.0	5.2	2.5	3.0	1.7	2.4	4.1	6.6	5.8	4.6	2.8	0.9	5.6	14.7	6.8
Naphtha < 400 Dea. F. Petro. Feed. Use	1.0	0	o.	0	1,2	0	ત્ય	αć	3.8	6.	ωį	1.8	0	1.5	0	ωį	0.1
Other Oils > 400 Dea. F. Petro, Feed, Use	O,	0	o	0	ιú	0	٦.	κį	۲.	5.2	3.3	0	0	4.0	o;	0.1	2.1
Special Naphthas		7	17	0	ø.	0	0:	ω		0.1	۳.	2.6	0	۲.	o.	₹.	πj
Lubricants	1.5	14.1	2.6	0	ωį	0	1.7	οί		2.1	<del>ن</del> ن	5.7	0	1.8	ωi	ø.	1.4
Waxes	77	2.7	сi	0	0	0	ςį	۳.	O.	۲,	κį	7.	0	κi		Τ.	٠.
Petroleum Coke	3.4	7.	1.	<u>.</u>	4.0	4.8	3.0	3.8	6.	3.1	4.2	1.9	ιú	3.3	2.4	5.1	3.7
Asphalt and Road Oil	6.8	4	6.3	3.0	4.2	6.4	2.4	4.0	3.8	4	οί	15.7	2.8	<del>د</del>	4.9	2.5	2.6
Still Gas	5.2	3.8	5.1	3,4	4.2	3.7	9.0	4.1	2,9	5.1	4.5	3.8	5.0	4.6	4.0	5,5	4.7
Miscellaneous Products		1,4	ø.	κi	٦.	4.	ωį	сį	ιċ	0.0	<u></u>	۲.	0	1.0	ui	ωį	ø.
Processing Gain(-) or Loss(+)4	-5.5	1.0	4 0	-3.3	4.	4.	بى 13.	4.	4,	4.6	4.5	-1.0	8.	4.0	-2.9	-5.8	4.

Based on crude oil input and net reruns of unfinished oils.
 Based on total finished motor gasoline output plus net output of motor gasoline blending components, minus input of natural gas plant liquids, other hydrocarbons and alcohol.
 Based on finished aviation gasoline output plus net output of aviation gasoline blending components.
 Represents the difference between Input and Production.
 Note: Totals may not equal sum of components due to independent rounding.
 Note: See Explanatory Note on negative production.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 16. Imports of Crude Oil and Petroleum Products by PAD District, November 1983 (Thousand Barrels)

Commodity			Petroleum Administration for Defense Districts	n for Defense Districts		
	-	=	=	2		
Crude Oil (including lease condensate) 1 2	21,995	39884			>	Total
Natural Gas Linnide		acotor	52,401	1,257	4,834	99 343
Natural Gasoline and Isonantian	857	3.811	coc			*****
Plant Condensate	240	0	287	549	320	5.830
Liquefied Petroleum Gases	41	. 0	0	0	0	240
Ethane	576	3.811	0 00	151	0	193
Probane	0	1.690	7 <b>(</b>	398	320	805.2
81256	423	590	÷ (	0	0	1,690
Bitane-Process Michigan	153	1030	- (	243	63	1 250
Ethana-Propose Michigan Michigan	0	- C	0 88	155	257	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	0	57.1	282	0	0	200
ler lineade 1		5	0	0	0	571
Hofinished City	2.805	136				5
Motor Capalina Diagram	2.225	- 65	5,609	62	489	966.0
Aviation Carolling Diameter	579	212	5,189	62	, ,	7,690
Cascillate plending Components	c	ņ c	420	0	488	7,000
	)	ò	0	0	2	20.
Fighed Marie	35.534	400			•	>
English of the casoline	7.416	567	2,982	149	1.175	00308
rinshed Leaded Motor Gasoline	9676	/0	199	42	33.6	550,04
Finished Unleaded Motor Gasoline	3,980	[6 :	199	42	8	8,063
Finished Aviation Gasoline	005.0	15	0	! ==	35	3,820
Naphtha-Type Jet Fuel	- (	0	0	·c	2	4,243
Kerosene-Type Jet Fuel	,	0	0	, c	<b>&gt;</b> (	•
Bonded Aircraft Fuel	20	o	57	c	7 6	0
Other	,	0	0	, c	ġ «	220
Kerosene	1 4 1	0	22	) c	2	0
Distillate Fuel Oil	123	0	Φ	) C	4 (	220
Bonded Ships Bunkers	4,8/1	252	257	2 2		723
Other	0	0	0		202	5,663
Residual Fuel Oil	4,8/1	252	257	) a	0 10	0
Bonded Ships Bunkers	20,946	346	1.487	2 6	SQ2	5,663
Other	0	0		9 *	509	23,317
htha / 400 Dea for Date Cond in	20,946	346	1 487	0 8	0	0
Other Oils / 400 Don Community	249	£	/OF.	227	509	23.317
Special Manhatan	0	, c	oes Oes	0	0	627
	754	, ç,			0	, -
LOUR TOOL IN A CONTRACT OF THE PROPERTY OF THE	126	÷	<del>1</del> 04	(S)	12	1 264
XXXX	18	<u>4</u>	42	(S)	7	
Asphalt and Road Oil	2 4	, co	7	0	j °	SS
Miscellaneous Products	•	m	0	0	۷ ۳	g :
	4	\$	109	, (§)	- 6	ឧទុ
Total Imports					N	180
***************************************						

Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Includes crude oil imported for storage in the Strategic Petroleum Reserve.

Includes than 500 barrels.

Includes than 500 barrels.

Includes than 500 barrels.

Includes the product of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, November 1983 (Thousand Barrels)

Source	Crude Oil 1	947	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							All PAD Districts	Districts						
Arab OPEC	2,911	0	0	0	0	0	٥	0	2,040	0	0	2,040	4,951	165
Kuwait	146	0 6	0 0	00	00	0 0	0 0	0 0	513	00	00	513 505	659 16.360	3 5
Saudi Arabia	1 169	S C	> 0	<b>&gt;</b> C	<b>5</b> C	Ö	o 0	0	519	0	0	519	1.688	26
Subtotal Arab OPEC	20,284	302	• •	0 0	٥٥	0	0	0	3,072	0	0	3,374	23,658	789
Other OPEC		•	•	•	c	•	c	c	ç	c	•	Č	1 075	ä
Ecuador	882	00	N C	<b>o</b> c	<b>-</b>	0 0	<b>-</b>	<b>o</b> c	25	<b>-</b> c	o c	4 C	2,325	2 8
Indonesia	9.006	0	0	0	198	47	0	146	150	00	(s)	541	9,548	318
Iran	621	0	0	0	0	0	0	0	0	0		0	621	21
Nigeria	6,382	0	0	0	0	0	0	5	0	۱٥	0 (	51	6,433	214
VenezuelaSubtotal Other OPEC	6,020 25,236	00	240 241 241	00	1,812 2,011	47	243 243	863 863	3,900 4,242	179	(S)	7,827	33,062	1,102
Otrer	2,725	0	0	0	0	0	0	0	0	0	0	0	2,725	91
Bahamas	o	0	2,097	•	0	0	89	373	1,494	0	265	4,298	4,298	143
Brazil	0	0	•	0	384	0	0		334	43	(s)	762	762	52
Canada	9,124	4,688	279	49	349	0	ო	Ø	672	2/2	329	7,125	16,249	542
Congo	1,044	0	0	0	0	0 (	0		0	0	0 0	0 0	, 20, 24, 24,	ဗ္ဗ
Egypt	844	٠;	0 0	0 0	0 0	0 0	0 0	<b>o</b> c	<b>&gt;</b> c	<b>&gt;</b> c	9	, T	1 1	0 4
France	0 00	4 6	<b>&gt;</b> c	2 6	90,	2 (2	> <	ă	473	<b>-</b>	σ Σ	2 422	21.518	717
Netherlands	2,030	80	, 0	420	462	9 0	φ		361	- 82	(s)	1,261	1,262	42
Netherlands Antilles	0	0	1,465	٥	509	0	0	190	2,158	0	0	4,322	4,322	<del>1</del>
Norway	1,640	0	0	0	0	0	0		0	0	0	0	1,640	32
Oman	3,637	0 (	0 0	0 (	0 0	0	0 0		0 0	0 <	0 0	0 0	3,637	12. 4
People's Republic of China	<b>&gt;</b> c	<b>&gt;</b>	<b>&gt;</b> C	484 584	<b>5</b> C	<b>o</b> c	o c	- c	1 792	0 0	0 0	792	1.792	2 09
Dieto Dico	o c	0	416	0	202	0	107	ন		30,	118	1,655	1,655	S
Romania	0	0	0	0	494	0	0		0	569	240	1,303	1,303	43
Spain	0	0	0	0	0	0	0	0	178	0	0	178	178	φ,
Trinidad and Tobago	2,732	0	0	0 •	<b>0</b> (	0 (	0 0	214	350	0 0	<b>8</b> °	561	3,294	5 5
Tunisia	264	0 0	0 0	0 0	o ţ	00	<b>&gt;</b> C	<b>-</b>	<b>&gt;</b> <	) Y	(8)	5.0	10 00	334
United Kingdom	o'n	<b>&gt;</b> C	1 977	> 0	1 737	410	305	2.290	7.005	0	73	13,193	13,193	440
Zaire	1,061	0	0	• 0	0	0	0	0		0	0	0	1,061	35
Other Western	•	ć	ć	c	c	c	c	c	670	Ğ	104	R43	843	28
Hermisphere	,		2 6	o c	•	א פ	0 0	, c	527	8 8	200	3 981	5 532	184
Subtotal Other	53,833	5,096	7,447	1,537	6,052	503	480	4,800	16,003	1,085	1,491	44,494	98,327	3,278
	4	0	4		000	i i	400	1000	7 50 00	730	400	55 506	155,047	7.168
Total Imports	98,352	BSE'C	7,663	756,1	8,003	200	150	2000	25,52	-	J 0	30000		>>

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, November 1983 (Thousand Barrels) (continued)

	Correct	Crude		Unfin-	Gasoline	Finished									
	<b>D D D D D D D D D D</b>	- 6	ე 	Silo	Compo-	Motor	Jet	Kero- sene	Pred Still	Resid.	Special	Other Prod-	Total Prod-	Total Petro-	Total
									5	5		ucts 2	ncts	leum	Average)
	Arab OPEC							PAD District I	strict 1						
	Saudi Arabia	3,707	302	00	0 0	0	0	0	0	2.040		'			
	Subtotal Arab Emirates		٥	0	0	0 0	<b>o</b> c	0 (	0	0	00	9 0	2,040	3,211	107
		4,8/B	305	٥	o	0	0	<b>5</b> c	0 0	519	0	0		519	1.04 1.04
	Other OPEC						•	>	>	2,559	0	0	Ø	7,738	258
	Gabon	0,00,1	00	٥٥	0 (	0	0	0	٥	192	c	•	,		
	Indonesia	2,624	0	0	<b>&gt;</b> c	0 0	0 0	0 (	0	0	0	<b>5</b> C	192	192	9
	Venezueta	830	0	0	0	0	<b>&gt;</b> c	0 0	0 (	0	0	0	0	500°	# 15 15 15 15 15 15 15 15 15 15 15 15 15 1
	Subtotal Other OPEC	1,585	0 (	0	0	1,812	0	243	0 2	0 1	0	0	0	830	3 6
		0,14	0	0	0	1,812	0	243	667	3,247	0 0	0 (	6,269	7,954	5 <del>6</del> 5
•	Other										>	0	6,461	12,609	420
	AngolaBahamas	581	0	0	٥	0	C	c	ć						
	Brazil	<b>၁</b> (	۵ ،	0	0	0	0	9	3 C	0 ;	0	0	0	581	ţ.
	Canada	2 6	٥	01	0	384	0	30	è =	484	0 (		1,936	1,936	. R
	France	3 0	50.4	ഗ	0	173	0	ო	338	s s	۰;	(s)	719	719	75
	Mexico	2,099	<u> </u>	<b>-</b> c	0 0	0	0	0	0	0	_ c	<u>ج</u>	1,060	1,983	99
	Netherlands		0	o c	B C	٥	0	0	594	467	) C	2	41.	114	4
	Netherlands Antilles	0	0	1.245	<b>&gt;</b> c	462	0	0	0	361	<b>4</b>	) (S)	0,0 0,0 0,0	3,739	125
	Norway	1,141	0	0	0	200	0 0	0 (	190	1,964	0		3.907	3 82/	8 8
	Peru	495	0	0	0	0	<b>-</b>	<b>&gt;</b> c	0 0	٥,	0	0	0	1,141	3 8
	Puerto Rico	<b>&gt;</b> c	0 0	0	0	0	0	0	<b>&gt;</b> c	1 70 0	0 (	0	0	492	5 9
_	Romania	> c	<b>&gt;</b> c	416	0 (	202	0	107	206	26/1	0 44	0 ;	1,792	1,792	9
-, ,	Spain	0	• •	<b>-</b>	<b>5</b> 6	494	0	0	0	0	26.5	2 6	1,510	1,510	20
•	Trinidad and Tobago	0	0	o c	<b>&gt;</b> c	0 6	0 (	0	0	178	30	0 42	505, 27,	1,303	43
	United Kingdom	4,127	0	0	0	181 C	0 0	0 0	214	320	0	0	534	27.8	ဖြင့
- 17	Zaire	0 5	0 (	559	0	1,737	410		2000	0 100	4	(s)	195	4,322	5 ₹
0	Other Western	<u>.</u>	0	0	0	0	0		062,2	/9/'0	0 0	0 (	12,064	12,064	405
,	Hemisphere	0	0	Ċ	c	c	•			,	>	5	0	1,061	32
<i>.</i>	Other Eastern Hemisphere	546	(s)	0	. 0	1 158	<b>&gt;</b> c	0 0	0	679	0	0	629	670	ξ
)		10,969	274	2,225	579	5,604	410			0 9	(s)		1,417	1,962	S 59
ř	Total Imports	21 005	Ğ				:			846,	754	969	29,873	40,843	1,361
	}	200	9/6	2,225	579	7,416	410	723 4	4,871 2	20,946	754	969	39.195	61 190	6
							"								2,040
Ara	Arab OPEC							I DISMET II	=						
₹ŰĬ	:	866	0 0	0	0	0	0	0	   c		"				
Ø		2,747	<b>&gt; 0</b>	00	00	00	00	00	000	00	00	00	00	866 1.881	8 8
Š							,	<b>)</b>	>	0	0	0	0	2,747	3 83
Ď	see roomotes at end of table.														•

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, November 1983 (Thousand Barrels) (continued)

Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- Ieum	Total (Daily Average)
							PAD DI	PAD District II						
Other OPEC Nigeria	1,131	00	0 0	00	00	00	00	00	00	00	00	00	1,131	38
Other Canada Congo Egypt France Mexico Netherlands	6,797 444 440 0 3,292 0	3,811 0 0 0 0	212 0 0 0	e <sup>4</sup> 0 0 0 0 0	67 0 0 0	000000	000000	252 0 0 0	64 0 0 0 0 0	, 00000°	00 (8) 0 (8) 0 (8)	4,871 0 0 (s) (s)	11,668 444 440 (s) 3,292 (s)	389 15 15 (3) 110 (4)
Oman Tobago Trinidad and Tobago Trinidad and Tobago Omero United Kingdom Other Eastern Hemisphere Subtoral Other Comero	1,616 918 1,028 453 14,988	0 0 0 3,811	0 0 0 212	00000	0 0 0	0000		0 0 0 0 252	, , , , , , , , , , , , , , , , , , ,	၁၀၀၀ဇ္က	(s) (s) 101	(s) (s) 4,872	918 918 1,029 454 19,860	34 34 15 662
Total Imports	18,866	3,811	212	49	29	•		252	346	83	101	4,872	23,738	791
							PADD	PAD District III						
Arab OPEC Algeria	875 146 10,470 1,169 12,660	00000	00000	0000	0000	00000	00000	00000	513 0 0 513	00000	0000	513 0 0 513	875 659 10,470 1,169	22 24 22 28 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Other OPEC Ecuador Gabon Indonesia Iran Nigeria Venezuela Subtotal Other OPEC	882 1,316 1,695 621 4,421 4,336 13,270	000000	240 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000	000000	0000000	0000000	0 0 0 0 113	0 0 0 353 353	0 0 0 0 179 179	000000	2 0 0 51 772 824	883 1,316 1,695 621 4,472 5,108	29 44 44 56 21 149 170 470
Angola Bahamas Bahamas Canada Canada Canada France France Mexico Mexico Metherlands Antilles	2,144 0 0 (s) 601 403 403 13,705	583 000000000000000000000000000000000000	2,097	(s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	27.60000	000000000	200000000000000000000000000000000000000	0000000 (g)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	265 20 27 27 (s) (s) 0	2,362 2,362 43 27 0 0 (s) 765 435	2,144 2,362 43 27 601 403 (s) 14,470 435 221	71 79 1 20 20 13 482 7

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, November 1983 (Thousand Barrels) (continued)

Source	Crude Oil 1	LPG	Unfin- ished Oits	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuet	Kero- sene	Distil. Fuel	Resid.	Special Naphthas	Other Prod-	Total Prod-	Total Petro-	Total (Daily
											1	SION	Ena	Average)
							PAD Dis	District III						
Norway		•												
Oman		0 (	0	0	0	C	C	•	•					
Puerto Rico	90	<b>-</b>	0 (	0	0	0	0	<b>&gt;</b> c	<b>-</b>	0 0	0	0	499	17
Trinidad and Tobago	0	0 0	0	0	0	0	0	0	0 0	) y	0 (	0	1,530	51
Tunisia		0 0	<b>&gt;</b> c	0	0	O	0	0	c		<b>-</b>	145	145	ß
United Kingdom	4	¢	0 0	<b>&gt;</b> c	0	0	0	0	. 0	o c	9 0		1,842	19
Virgin Islands		0	817	<b>-</b> C	00	Φ.	0	0	0	0	<b>&gt;</b> 0	<b>&gt;</b> c	564	£ ;
Hemischere	•			)	>	5	0	0	238	٥	73	1,129	1,039	ក្តី ទ
Other Fastoro Homischess	0	0	0	0	0	<	c	c	•				2	3
Subtotal Other	200	0	1,810	0	0	· c	> <	> 0	0	9	104	25	164	ur
	20,472	293	4,948	420	199	, [ç	> c	O 900	383	₽.	4	2,228	2,781	, සු
Total Imports	52 401	C		į		;	•	909	20	586	517	7,547	34,019	1,134
	05,70	630	5,189	450	199	57	0	257	1,487	464	517	8,884	61,285	0.043
													}	5
•							PAD District IV	ict ⊵			ļ l			
Other					'									
Canada	1,257	398	62	c	42	c	ć	i						
Subtational Other	1,257	398	62	0	4 4	00	<b>-</b> 0	78	8 8	<u> </u>	152	759	2,016	67
Total Imports	1,257	398	. 6	c	Ç	•					35	e C	2,016	67
			3	5	3	0	0	78	<b>59</b>	(s)	152	759	2,016	67
. 0							PAD District V	ict V				ļ		
Other OPEC														
Indonesia	4,687	0	<b>c</b>	c	ç	ļ								
Subtotal Other OPEC	4,687	0	0	0	90 6	4 4	0	146	150	0	(s)	541	5,229	174
Other				•	3	ŧ	>	146	150	0	(s)	541	5,229	174
Canada	147	CCC	•	•										
Mexico	Ô	025	- c	0 0	67	0	0	0	မ	12	c	907	7 1 4	;
Netherlands Antilles	0	0	) C	) c	<b>-</b> 0	٥ د	0	8	9	0	l m	5 5	4 4	<u>,</u>
People's Republic of China	٥	0	0	488	<b>-</b> (	<b>&gt;</b> c	0 (	0	194	0	0	194	194	- 9
Orner Eastern Hemisphere	0	0	0	C	2 0	۰ <i>و</i>	<b>&gt;</b> 0	۰:	0	0	0	488	488	٠ <u>٦</u>
Subtotal Other	147	320	-	488	5 6	8 8	<b>&gt;</b> 0	8 2	154 360	ې ٥	2.5	336	336	2 =
Total Imports	4.834	330	•	9				}	3	ŭ	8	1,443	1,589	23
			_	883	338	84	0	205	509	12	56	1.984	8,83	227
Includes crude oil imported for storage	for storage	in the Strai	in the Stratedic Petroleum Bes	Person Recon									)	77

Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 Includes aviation gasoline, waxes, asphalt, lubricants, natural gasoline, isopentane, plant condensate, naphthas less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products.
 Less than 500 barrels or less than 500 barrels per day.
 Note: Totals may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 18. Exports Of Crude Oil And Petroleum Products By PAD District, November 1983 (Thousand Barrels)

		Petroleu	Petroleum Administration for Defense Districts	for Defense	Districts	
Cenmodity	1	11	==	2	>	Total
Crude Oil (including lease condensate) 1	0	248	0	0	5,319	5,567
The state of the s	25	11	728	o	215	980
Ethono	§ §	0	(s)	0	0	(s)
	13	7	447	0	82	551
7.0000 B	12	ທ	282	0	130	429
Distance Depress Michigae	0	0	0	0	0	0
Ciniched Motor Cacoline	2	0	6	0	ო	99
Months Tone let Die!	0	0	o	0	0	0
Various Time Let Biss	122	0	206	0	45	373
Neicodie-1ype del 1 del	(8)		(s)	0	-	N
Distilate Cust Oil	;	<b>T</b>	505	0	1,108	1,614
	(S)	0	2,324	0	2,674	4,998
Norther / 400 Dea for Detrochem Feedstock	, 19	ဖ	96	(s)	12	175
Other Oils 1 400 Den for Detrochem Readstock	*	58	435	0	20	516
Constant Northbase	· (*)	4	45	0	2	54
יייייייייייייייייייייייייייייייייייייי	124	22	178	-	77	402
14016alla	4	•	5	0	4	24
Detailain Calo	38	318	3,021	0	2,182	5,556
	~	4	(s)	-	₩-	14
Astronomy Describes	. 9	2		0	4	38
Total Product Exports	401	400	7,629	€	6,379	14,812
Total Exports	401	648	7,629	α	11,698	20,379

1 Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports. (s) Less than 500 barrels.

(s) Less than 500 barrels.

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 19. Exports of Crude Oil and Petroleum Products by Destination, November 1983 (Thousand Barrels)

Total (Daily	⋖	Ē.	ro c		(S)	47	(8)	31	(S)		CO P		<b>S</b>	(s) 10	(S)			z (s)		<u>.</u>	- c	(s)	9	£	66	(S)	(s)	(s)	9	83 (3)	38	α (	က (၅	7	-	(s)	(s) 7	~ ~	က	- (3)
Total		218	5 6 8	697	(s)	1,404	4	940	<i>D</i> 4	-;	8 °	(8)	<u>ლ</u>	294	-	(g) (i	(s)	<u></u>	C¥	(s)	5 0	- 6	(s)	36	2,971	F 643	(s)	<del>-</del> !	172	681	1,168	بري دري	S 82	506	8	(s)	9 t	58	88	<del>4</del> 5
Other	<u>s</u>	φ : :	(e)	-	@	ගි		® 8	<u> </u>	(s)	- (s)	(S)		69		(s) (s)	<u> </u>	<del>-</del>	ر ج	) c	10	(s)	(5)	(s)	92	(e) 4	0		<u>6</u>	- თ	24	0 0	0		(s)	0	<u> </u>		<b>;</b> ;	- N
Asphalt	0	(S)	(s)	0	0 0		<b>©</b> :		0	00	ວ (§)		00	0	0	00		(O)		0	0		0		(S)	οω	•	00	<b>&gt; C</b>	0	<b>O</b>	(s)	0	0	0 (	0	0 (2)	0	0	0
Petro- leum	O O	193	2	689	9 6	419	0 8	S S	0	0 0	0	0 0	00	222	0	<b>o</b> c	0	0	> 0	0	0	(s)	8 0	0	1,155	153	0	0 0	0	34	494	- g	90	0	8 4	<b>&gt;</b> c	00	0	2 ٥	<b>,</b> 0
Waxes		@ E	0	<u>જ</u>	0		ହ ଓ	<u> </u>	(@)	§ §	(S)	0	(e)		0 (	o (s)		φ,	- (§)		0	0 -	. 0	0 (	n c	) (s)	0	<b>&gt;</b> c	0	ო	0 0	) (S)	0	0	(s)	o (8)	(S)	(s)	- #	; <b>o</b>
Lubri- cants	(S)	<u>5</u> ~	(s)	(S)	(E)	w	.u ç	ล์ ยา	e ,		· (§)	(s)	y (s)	<b>-</b>	<b>-</b> 3	<u>(8</u>		∞ <del>-</del>	· (S)	.,	0	® -	0	- ţ	<b>4</b> -	-	(s)	- (S)	-	8 !	/L (S)	8	(s)	(s)	(s) 4		·	<b>~</b> ;	<u>4</u> 0	,
Special Naphthas	0	4 0		(e)	0	φ.		(S)		(S)	(S)	® _	0	<u>ග</u>	<b>&gt;</b> c	(S)		0 0	0	0		<u> </u>		0 1	۰ ۵	(s)	(S)	o c	0	우;	(S)		0	0 0	<b>&gt;</b> C	0	(s)	£ 7	0	(s)
Residual Fuel	0	(s) 137	00	0	0	526	865	0	00	0	0	<b>-</b> -	0	00	<b>&gt;</b> c	0	0	<b>-</b> 0	0	0	0 0	670	0	953	? 0	476	00	172	0	0 0	90	0	0	<b>o</b> c	<b>)</b> C	0	0	0 (5)		0
Puel O Fuel	0.	(s)	0 0	0	0	357	. 0	0	0 0	0	88	0 (e)	0	00	<b>o</b> c	0	00	<b>&gt;</b> 0	0	0 (	0 0	00	0	741	0	0	<b>-</b>	0	0	0 5	0	0	0 0	<b>)</b> C	) O	0	216	00	0	0
Jet Fuel	00	00	<b>o</b> c	0	0 (	<b>o</b> c	0	0	00	0	Φ (	٥٥	0	<b>o</b> c	0	0	00	0	0	0 0	<b>&gt;</b> c	0	00	00	0	Φ (	<b>-</b> c	0	0 !	€ €	0	0	0 2	8 0	, 0	0	0 0	00	0	
Finished Motor Gasoline	0 (5)		00	0		(e)	0	0 (	<b>-</b>	0	5 c	0		(s)	0	0	0		0	00	<b>&gt;</b> C	0	0 0	ه (ه)	0	0 0	0	0	0 (	n 0	. S	0	٥	0	0	0	0 0	<b>&gt;</b> -	0	0
LPG	(s)		90	0	o ‡	<u>,</u> 0	<u>(s)</u>	0	<u>.</u> @	8 8	<u> </u>	(s)	o ,	- 0	0	o ;	<u>د</u> د	(S)	0	C	§	٠- ı	၁ ဗွ	30	0	4 (	0	(s)	<u>}</u>	(S)	(S)	<b>©</b> 3		0	0		(S)	2,2	જ જ	-
Crude Oil 1	90	00	0	0	24B	0	0 (	<b>о</b> с	0	0 0	<b>&gt;</b> 0	0	0 0	0 0	0	0 6	9 0	0	0 (	<b>-</b> 0	0	00	<b>-</b> -	0	0 0	<b>&gt;</b> 0	0	0 4	<b>&gt;</b> c	0	0	00	- 0	0	0	0 (	o c	0	00	<b>D</b>
Destination	Argentina Australia	Bahrain	Belgium & Luxembourg	Cameroon	Canada	Chile	Colombia	Costa Rica	Denmark	Ecuador	Egypt	El Salvador	France	French Pacific Isl	Ghana	Guatemala	Honduras	Hong Kong	Indonesia	lran	Israel	Italy	Jamaica	Japan	Korea Republic of	Kuwait	Lebanon	Upena	Mexico	Netherlands	Netherlands Antilles	Nicaragua	Nigeria	Norway	Pacific Trust Terr.	Panama	Philippines	Puerto Rico	Rep. of South AfricaSaudi Arabia	•

Table 19. Exports of Crude Oil and Petroleum Products by Destination, November 1983 (Thousand Barrels)

(continued)														
			Finished	1	Dist.	Residual	Capacial	inter		Petro-				Total
Destination	Crude	.PG	Motor	Fuel	<u>a</u> 5	Fue E	Naphthas	cants	Waxes	Soke	Asphalt	Other	Total	(Daily Average)
Cience	5	6	0	6	0	0	6		(S)	0	(S)		5	<u>(s)</u>
SILIJADUIE		o c	· <		· C	400	c	•	(2)	713	0	4	1,258	42
Spain	>	>	> (	•	•	3				Ç	•	10)	7	(8)
Surinam	0	0	0	•	>	•	>	2	>	2	•	2	<u>†</u>	
Sweden	c	0	0	0	0	311	0	-	(S)	_	0	-	314	
Cuitsodood	· C	(s)	٥	0	0	0	0	(S)	(s)	91	0	-	92	e
Zi-ii-i	•	9	· c			· c	•	4	(8)	0	٥	•	16	-
I naliand	<b>5</b> (	23	•	ָ ֖֭֓֞֜֜֜֝	•	•	· c		(8)		c	(2)	125	4
Trinidad and Tobago	5	2	>	77	2	•	•	4 (	C	- (	• 6		į	•
Trirkey	0	0	0	0	0	0	<u>(S</u>	ກ	>	>	>	9	7	-
Inited Arab Emirates	· c	(8)	0	0	0	0	0	(s)	0	26	<u>(s)</u>	(s)	57	2
Third Kindom	o c	-	c		-	0	e	:	(8)	30	<u>@</u>	ო	33	
The contract of the contract o	) C	· c	0 0	· C	c	0	(2)	,-	(s)	0	0	(\$)	N	
Version of	0 0	9	0	· c	C	0	е :	•	(s)	88	(s)	n	96	ო
Verify 1-14-	100		•		· C	380	0	(2)	•	0	0	0	5,165	
Virgin Islands	3		•		• •	}	(6)	,	(8)	٧	c	e.	đ	
West Germany	>	>	>	>	•	>	2	• •	Ξ	•	•	•	•	
Viigoslavia		0	0	0	0	0	٥	0	0	0	0	•	0	
Chor		110	0	0		0	(8)	=	(s)	0	4	17	929	
	5.567	980	99	373	1,614	4,998	\$	402	24	5,556	4	731	20,379	
CONTRACTOR OF THE PROPERTY OF	•	1	,											

1 Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.

(s) Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, November 1983 (Thousand Barrels)

	ته ت	West States	J	28,793 191,358 1 721 22,021	29,586 29,588		152 9,845 89,286 797,499	6 738 2 3,355 5 1,045		0 3,784 0 3,214 0 3,114	0 10,112	0 114 0 3 0 288			2,589 92,672 0 12,038 130 5,380
	PAD Dist. IV	Rocky Mt.		9,885			w	5 0 to 8	4	0 466 33	499	000	14 14		108 2,589 45 0 113 130 560 3,289
		Total	46.336	93,732	371,291 0 528,630	140,413 95,341 39,676	7,584 283,014	466 2,332 670 712	4,180	1,413 2,537 2,181	6,131	109 3 288	84 184	3,529	60,733 3,330 4,374 71,966
		New Mexico	I	1.1	111	1,536	235	g 1 1 4	t	6	1	0	0	8	11
		Ark.	J	1 1	111	5,092	8	27	ł		I	8	on	36	1 1 8 1
	PAD D	Coast	t	1.1	111	47,058	£ 1	192	I	1 122	ı	۰ ا		2,780	1 1 4 1
	Texas	Coast	1	1-1	111	76,568	? 1	160	1	1   8.	1	4 1 8	8	371	2,725
	Texas	Inland	1	11	111	10,159	3 1	102	I	198	1	" I I	3 1	320	926
	1	- ठाखा	14,277	1,573	0 73,553	63,840 96,306 36,073	197,838	238 1,015 355 183		2,371 211 897 3,470	n .	000	- 52	3,217	6,077 530 36,809
	Okla,	Wo.	1		1 1	14,833	. 1	1152		١١١٤	<b>.</b>	) m	, 	<u>8</u> '	397
PAD District II	Minn.,	Daks.	1 1	1 1	1-1	6,224	1	8 1 1 = 1		» ا ا ا	_	) (	I	123	8 1
ď	Ind.	. Ky	1 1	1.1	1.1	41,731	I	8 1 1 2 1		104	rC.	11	1	2,140	1 95
	Appa- lachi-	an #2	1.1	1 †	1-1	1,052	ı	111	. 1	0	0	11	1	313	0
=	Total		12,928	ဥ္ပ ဝ	14,233	43,913 136,643 30,048 272	210,876	16 0 15 35	0	000	0	000	0	699	2,586 233 5,775
PAD District 1	Appa- lachi-	an #1	1.1	1 1	1.1	3,082	I	0 1 1 1	ı	, 	0	0	1	თ 	ı <sup>88</sup> I
3	Coast		1-1	1 1	1-1	40,831 1	ı	9 1 1	I	0	0	110	1	069	7 500
	Commodity	Crude Oil (incl. lease condensate)	Refinery Tank Farms and Pipelines	Strategic Petroleum Reserve1	Total	Total Stocks, All Oils (excl. Crude Oil) Refinery Bulk Terminal Pipeline Pipeline Natural Gas Processing Plant Total	Natural Gasoline and Isopentane	Pullingy Bulk Terminal Pipeline Natural Gas Processing Plant Total	Unfractionated Stream Bulk Terminal	r peline	Plant Condensate Refinery Bulk Terminal	Pipeline Processing Plant Total	Liquefied Petroleum Gases	Hetinery	Natural Gas Processing Plant Total

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, November 1983 (Thousand Barrels) (continued)

	/d	PAD District 1	_		PA	PAD District II	=				PAD District III	rict III			PAD	PAD	
Commodity	East Coast	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind., III., Ky.	Minn., Wisc., Daks.	Okła., Kans., Mo.	Total	Texas	Texas L Gulf Coast	La. Gulf N Coast	No. La., Ark.	New Mexico	Total	Dist. IV Rocky Mt	V V West Coast	United
Ethane Refinery	1	°I	000	٥	٦	4	١	16 873	۱	٦	°I	۰ ا	0	10	000	000	26 5,524
Pipeline			000		1 1			1,977	N	575	0	0	6 }	380 586 5,627	<b>&gt;</b>	000	635 7,605
Propane for Petrochemical Feedstock Use Refinery	82 1	0	4 4	0	88	١	١	89 89	۱ ۲	۲	1 59	0	٥	88 88	00	00	171
Propane For Other Uses Rethery Bulk Terminal Pipeline Natural Gas Processing Plant Total	615 	3 1 1	620 1,766 2,415 220 5,021		1,429	1 33	257 	1,719 18,300 2,919 202 23,140	1 413	319	1.215   365   1	9 8 	86 2	1,361 27,195 1,063 1,205 30,824	150 108 10 76 344	155 747 0 116 1,018	4,005 48,116 6,407 1,819 60,347
Butane For Petro. Feed Use Refinery	١	١	00	1	١	<b></b> ₹	١	88	0	8 1	0	٦	0	2.2		0 0	53
Butane For Other Uses Refinery Bulk Terminal Pipeline Natural Gas Processing Plant	1   29	4 0	33 396 150 12 591	279	101	) 	261 1 46	1,001 2,565 983 65 4,614	138	1.046	670 	1 1 1 1 E	.   1 26	1,036 13,309 496 1,494 16,335	108 0 35	286 1,192 0 9 1,487	2,464 17,462 1,629 1,615 23,170
Butane-Propane Mixtures For Other Uses Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	N III		00000		0 8	0 0		393 20 0 415		6 8	ო ი 	- 0	# 0 !	15 40 650 8 713	m 0 0 0 m	92 533 0 2 627	112 966 670 10 1,758
Ethane-Propane Mixtures Bulk Terminal Pipeline	11 1		0000				1   5 1	3,392 699 189 4,280	1   1   1	11 1	1 1	0		9,725 556 158 10,439	0 35 35	0000	13,117 1,290 347 14,754

See footnotes at end of table.

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, November 1983 (Thousand Barrels) (continued)

	United	1,478	7.487 622 954 10.541	282	25,130 18,750 44,882 20,232	38,807 1,038 65	287 287	44,707 96,919 54,380 30 96,036	21,380 46,629 28,373 18 96,400
	PAD Dist.	Coast 35	117 0 3 155	4 4	4,153 4,115 11,119 5,284	_		7,092 10,598 1,964 0 0	3,258 2,5,208 4 825 2 0 9,291 9
	PAD Dist. IV		33 - 0	00	554 444 1,314 533		00	2,501 1,670 1,223 9 5,403 1	1,655 1,049 747 7 3,458
	Total	- wo c	185 185 923 7,969	101	12,931 8,733 19,313 7,896 48,873	18,123 698 17 18,838	183 183	18,414 13,422 19,314 0 51,150	8,641 6,847 9,766 0 25,254
	New	8	۱ ا	0	93 130 231	7	0	1   230	1 1 33
	1		۱ ا	0	138 186 56 408	<del>1</del> 1 1 1	o 	755	338
	La. Gulf No. La	863	1 1	5 1	5,238 1,268 7,472 3,172	5,844	151	5,387	2,579
	Texas	69	783	88	6,706 6,764 10,540 4,402 28,412	10,268	33	9,776	4,363
	Texas	101	- 72	- 1	756 665 985 266 2,672	1,591	0	2,266	1,230
	Total	361	416 26 2,265	119	3,697 3,532 6,354 4,586 18,169	7,421 95 48 7,564	22 22	11,409 32,796 16,644 0 60,849	5,876 16,825 8,308 0 31,009
	Okla. Kans.	123	1 1	0	1,044 962 1,296 1,386 4,688	1,369	- 24	3,205	1,943
PAD District II	Minn. Wise,	11		١	175 282 9 468	80	0	1,682	885
A	Ind., III., Ky.	187	ודו	119	2,439 2,568 4,638 3,189 12,834	5,207	9	6,437	3,006
	Appa- lachi- an #2	<u>8</u> 1 1	0	١	39 0 138 2 179	8	0	8 1 0	4 0
_	Total	2, 53, 12	119	58	3,795 1,926 6,782 1,933 14,436	4,357 222 0 0 4,579	00	5,291 38,433 15,235 21 58,980	1,950 16,700 8,727 11 27,388
PAD District 1	Appa- lachi- an #1	0	0	o 	141 25 297 269 732	17 17	0	8   1	169
P.	East Coast	N 	- 1	88	3,654 1,901 6,485 1,664 13,704	7,231	0	5,001	1,781
	Commodity	Isobutane Refinery Bulk Terminal	Natural Gas Processing Plant Total	Refinery  Unfinished Oils  Refinery		Petiney Bulk Terningl	Refinery Total Motor Gasoline	Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, November 1983 (Thousand Barrels) (continued)

<u></u>	Dist. United V States West Coast	5 3,834 23,327 1 5,390 50,290 5 1,139 26,007 2 0 12 5 10,363 99,636	3 179 1,050 294 1,253 0 0 55 0 0 55 1 473 2,410	1 887 3,811 491 1,826 313 1,005 1,691 6,642	3,066 12,881 2,833 15,526 602 10,839 6,501 39,246	289 3,583 62 5,561 1 1,071 0 4 352 10,219	4,795 44,129 5,341 89,322 1,041 27,887 0 1 11,177 161,339	6,752 20,031 1,822 34,422 8 9 8,582 54,462
PAD	Dist. IV Rocky Mt.	846 621 476 2 1,945	84 00 85 85	234 7 57 298	326 241 140 707	32 7	1,585 690 546 0 2,821	455 0 0 455
	Total	9,773 6,575 9,548 0 25,896	619 155 3 52 829	1,673 335 341 2,349	6,508 2,198 4,141 12,847	1,759 861 470 4 3,094	17,888 7,520 8,369 1 33,778	7,448 5,003 1 12,452
	New Mexico	97	111	22	62	55	262	8
trict III	No. La., Ark.	419		<sub>6</sub>	<u> </u>	۱۱ ا	1,650	4
PAD District III	La. Gulf Coast	2,808	185	8 1 1 1	2,928	721	4,629	2,240
	Texas Gulf Coast	5,413 	808	89	3,262	970	10,286 	4,667
	Texas	1,036	126	326	22 1 1 1	8	1,061	367
	Total	5,533 15,971 8,336 0 29,840	166 383 52 0 601	790 730 143 1,663	1,697 4,383 2,142 8,222	1,049 993 155 0 2,197	11,764 20,833 10,127 0 42,724	1,960 1,675 0 3,635
_	Okła., Kans., Mo.	1,262 	1   1	192	88	298	2,949	1   1
PAD District II	Minn., Wisc., Daks.	797	111	, I I I	% 	37	1,515	7   1   58e
PAC	Ind., III., Ky.	3,431 	0 1 1 0	88   1	1,438	417	7,224	1,443
	Appa- lachi• an #2	ا ا ا ئ 0		111	8 111	0 0	76	8 1 1 1
-	Total	3,341 21,733 6,508 10 31,592	38 411 0 0 449	227 263 151 641	1,284 5,871 3,814 10,969	479 3,613 445 0 4,537	8,097 54,938 7,804 0 0 70,839	3,416 25,922 0 29,338
PAD District I	Appa- lachi- an #1	121	0 0	ğ <b>   </b>	0	±     0	476	111
PAť	East Coast	3,220	88 0	1 1 1	1,284	365	7,621	3,338
	Commodity	Finished Unleaded Motor Gasoline Refinery — Pipeline — Patural Gas Processing Plant — Total —	Finished Aviation Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant	Naphtha-Type Jet Fuel Reinery Buk Terminal Pipeline Total	Kerosene-Type Jet Fuel Refinery	Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	Distillate Fuel Oils Refinery	Residual Fuel Oils Refinery

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, November 1983 (Thousand Barrels) (continued)

	2	PAD District I	_		A	PAD District II	=	_			PAD District III	<u>ic</u> ≡		_	PAD	PAD	
Commodity	East Coast	Appa- lachi-	Total	Appa- tachi-	Ind.	Minn. Wisc.,	Okla., Kans.,	Total	Texas	Texas Gulf	La Gulf No. La.		New	Total	Dist. IV Rocky	Dist.	United States
				7		Dans.	200			-			2		Mf.	Coast	
napnina < 400 Deg. Petro. Feedstock Refinery Total	8 8	00	88	0 (	162	0	48	210	85	797	368	86	0	1.336	o	161	1 79.
			3	5	162	0	48	210	82	797	368	96	0	1,336	0	<u>1</u>	1,797
Other Oils > 400 Deg. Petro. Feedstock Refinery		c	٠	(	;	,											
Total	4	0	4	9 0	8 8	00	00	% %	26 <u>1</u> 26 <u>1</u>	916 916	252 252	00	00	1,429	ഗ ഗ	540	2,004
Special Naphthas												٠	•	}	•	7	9
Refinery	8	24	82	0	225	0	177	405	18	1.136	22	121	c	4 947	;	Š	i
Natural Gas Processing Plant	1	1	681	ı	ı	;	1	195	ı	1	!	· 1	1	23	- 0	3,7	2,053
Total	· 	1	766	- 	<b>&gt;</b>	c 	o 	597	06 	0	0	0	0	06	0	0	ā
Lubricants								3			ı	1	1	1,460	=	245	3,079
Refinery	1,142	958	2,100	0	671	0	261	633	č	2 010	5	11	•		i	i	
Bulk leminal	1	ŀ	1,239	1	I	ı	1	1.144	3	<u> </u>	3 1	6	>	4,523 4,529	Z,	572	8,19
O'A	ı	I	3,339	1	;	1	ł	2,076	ı	ı	1		H	4,800	- 69	1205	3,288
Waxes															}		
Refinery	17	142	159	c	63	•	ć	92	8	ţ	;	1					
lotal	1	ı	159	1	1	l	}	9 9	۶ ا	ž 1	<u> </u>	26 	o 	203 203	00	2 2	790
Petroleum Coke														}	>	ž	ħ `
Refinery	1,162	0	1.162	c	472	9	ď	909	•	Š		į					
Total	1,162	0	1,162	0	472	200	95	626		315	1,159	2 2	00	1.648 1.648	123 123	1,947	5,506
Asphalt and Road Oil															1		
Refinery	1,588	35	1.623	236	1 732	401	416	2 400	Č	į	,		!				
Bulk Terminal	. ]	1	2,663	1	: 1	2 1	7 1	2,402	- 0	100	512,1	622	147	3,004	204	1,382	9,91
lotal	i	I	4,286	1	1	1	1	6,085	1	1 1	H	11	H	3.341	527	137	5,843
Miscellaneous Products															į	2	
Refinery	258	34	292	-	52	4	Ç	20	ô	Ü	6	{		•			
Bulk Terminal	1	ı	126	. 1		<u>?</u> 	2	2 0	Q	č	8/8	à	0	924	φ	5	1,420
Pipeline	I	1	5	1	1	ı	1 1	3 5	;	1	i	1	ı	37	٥	8	278
Natural Gas Processing Plant	0	0	0	0	2	c	<b>c</b>		¥	, 	ء ا	1	,	<u> </u>	0	0	32
Total	1	ı	431	1	1	) 	)	4 6	6	4	5	N	<b>-</b>	88		0	92
							l	677	ſ	1	ŀ	ł	i	1,245	7	209	2,117
Total Stocks, All Oils			007				•										
THE COURSE WITH CITY OF THE PERSONNELL PROPERTY	I	1	20,03	1	١		•	100									

Includes 33,879 thousand barrels of domestic crude oil.
 Sources: See Explanatory Notes on Data Collection and Estimation.
 Not Applicable.

Table 21. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, November 1983 (Thousand Barrels)

Commodity		From to			From 11 to	II to			From III to	t t		Froi	From IV to	-				
	=	=	>		=	2	>	-	-	-	-	-			Ď.	OI V HOL		
						=	>	-	=	≥	>	=	=	>			=	≥
Crude Oil (Tanker and Barge only)	0	0	0	0	0	0	0	413	1 970	c	c							1
Petroleum Products	000	970	•	9				:	2	>	<b>o</b>	0	0	0	2,192	0	18,764	0
Natural Gasoline and Isopentane	0.47	0	0	3,018 0	5,445 2	2,091	211	83,450	29,028	0	1,749	1,666	669	918	c	c	45	c
Untractionated Stream	0 0	0 (	0	0	200	0	0	0	100	0 0	0 0	유 등	0	0	0	0	ą o	0
Liquefied Petroleum Gases	<b>&gt;</b> 0	00	<b>0</b> c	72.7	0 25 0	0 0	0	0	-	0	<b>&gt;</b> 0	5 0	669	00	0 0	0	0	0
Unfinished Oils	· თ	152	0	7,0	, ,	200	0 0	2,011	6,520	0	0	272	0	<b>)</b> C	<b>&gt;</b> c	00	0 0	0 (
Motor Gasoline Blending Components	0	0	0	0	0	0	0	7 8	1 254	0	0	0	0	0	0	0 0	<b>&gt;</b> c	<b>5</b> C
Avauori Gasolitte Diending Components Finished Motor Gasoline	0	0	0	0	0	0	0	20	<u>.</u>	<b>&gt;</b> c	0 0	0	0 1	0	0	0	0	0
Finished Leaded Motor Gasoline	0,004 0000	<b>&gt;</b> c	<b>-</b>	1,446	1,868	1,281	0	49,212	11,188	<b>&gt;</b> C	0 0	ې د	0 0	0	0	0	0	0
Finished Unleaded Motor Gasoline	2,426	9 6	<b>&gt;</b> C	9.73 7.38	7,013	645	0	18,263	4,845	0	581	28.5	<b>&gt;</b> c	6/1	0 0	0 (	0	0
Finished Aviation Gasoline	6 Î	0	0	§ C	n c	936	0 0	30,949	6,343	0	397	3 5	0	5 5	<b>&gt;</b> c	0 0	0 (	0
Naphtha-Type Jet Fuel	122	0	0	0	ව නු	<b>-</b> c	<b>&gt;</b> c	198	107	0	0	0	0	, 0	0	<b>&gt;</b> C	ى د	0 0
Kerosene-Type Jet Fuel	278	25	0	78	47	468	0	9 484	1 072	0 0	<u>6</u>	6	0	98	0	0	0	<b>.</b>
Distilate Firel Oil	33	0 0	0 (	١٥	0	0	0	658	11.	<b>&gt;</b> c	<u> </u>	ഗ	0 (	32	0	0	0	0
Residual Fuel Oil	9 C	<b>&gt;</b> c	<b>&gt;</b> c	4 5 6	494	174	0	17,723	5,405	0	376	0 070	<b>&gt;</b> c	ې ۵	0	0	0	0
Naphtha and Other Oils for Petro.	•	,	>	8	0	Þ	211	1,803	0	0	0	90	0	<u> </u>	<b>&gt;</b> c	00	0 0	0 (
Feedstock	0	0	0	0	0	0	c	6	c	,				,	>	>	>	>
Special Napritrias	0 0	0 9	0 (	0	0	0	0	327	197	<b>&gt;</b> c	ې ۵	0 (	0	0	0	0	o	0
Waxes	0	ф c	0 0	37	₽.	0	0	751	340	- c	ų c	<b>5</b> 0	o (	۰ (	0	0	0	0
	<b>.</b>	<b>&gt;</b> c	<b>&gt;</b> c	<b>&gt;</b> 6	0 (	0	0	0	0	· c	) c	<b>o</b> c	> 0	<b>5</b>	φ.	0	0	0
Miscellaneous Products	78	g	> 0	8 ç	0 8	0	0	166	371	0	· c	o c	<b>&gt;</b> c	<b>&gt;</b> c	0 0	0 (	0	0
	?	}	•	3	ŝ	0	0	<del>2</del>	156	0	0	0	0	0	<b>&gt;</b>	<b>&gt;</b>	οų	0 0
I otal All Products	8,242	279	0	3,018	5,445	2.091	211	83 B62	0000						,	•	?	>
									066'00	5	1,749	1,666	669	918 2,	2,192	0 18	18,809	Q
Sources; see Explanatory Notes on Data Collection and Estimation	Collection	מבל עו	notice.			1												

Table 22. Movements of Petroleum Products by Pipeline between PAD Districts, November 1983 (Thousand Barrels)

Commodity	From I to	Ð		From II to			From	From III to			From IV to		From V to	ļ ģ
	=	=	-	111	2	-	=	2	>	=	≡	>	=	2
Natural Gasoline and Isopentane	c	¢	c				ç	•						
Unfractionated Stream	0 0	0	0 (				500	0	٥			0	0	0
Plant Condensate	> 0	0	יכ				1,100	0	0		_	0	0	c
Licheliad Patroloum Cases	5 (	0	0				**	0	0		0		· c	· c
Motor Gosoline Dionaine Comments	ο,	0	721				6,520	0	0			0	0 0	<b>.</b>
Aviation Gasoling Displian Components	0	0	0				1,251	0	0			c	òc	0
Finished Motor Gasaline	0	0	0				0	0	0				o c	oc
Finished Leaded Motor Conning		0	1,262				10,590	0	978				<b>,</b>	0
Finished Holesday Motor Carolina		0	8				4,534	o	581				) C	o c
Finished Aviation Geographic		0 (	758				6,056	٥	397				· c	c
Naphtha-Type Jet Engl		0 (	0 (				92	0	0				0	) C
Kerosene-Tone Jet Frief		<b>&gt;</b> (	<b>-</b> į				0	٥	190				0	· C
Kerosene		<b>&gt;</b> (	19				1,794	Φ	133				c	) C
Distillate Fire! Oil		<b>&gt;</b> (	0				-	0	0					· c
Residual Fuel Oil	1,505 0	0 (	410				4,894	0	376				· c	<b>~</b>
Miscellaneous Products	0	<b>&gt;</b> (	0 !	Φ.	0	0	0	0	٥	0	0	0	0	0
Total	7 7 0	> 0	201				0	0	0				0	0
	007'0	>	7,367				26,627	٥	1,677	•			O	· C

Source: See Explanatory Notes on Data Collection and Estimation.

Table 23. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, November 1983 (Thousand Barrels)

i.	ŭ.	From I to		Œ	From II to				From III to	= 5			u	From V to	
Commodity	=	=	>	_	=	>	_	New	Atl Cent	Low	=	>	-	=	=
Crude Oil	0	0	0	0	0	c	1 4	_ c	413		920			,	
					•	•		•	2	>	2,5,	•	2,192	0	18,764
Fetroleum Products	2,486	279	0	451	148	211	22,704	1,205	4,621	16,878	2.401	72	C	¢	ř
Infinished Oile	<b>5</b> (	9	0	0	0	0	215	0	0	215			· c	· c	? <
Motor Gasoline Riending Composition	<b>n</b> (	152	0	0	0	0	2	0	2	0	0	0	0	0	o c
Finished Motor Gasoline	) 1	<b>&gt;</b> (	φ,	0	0	0	108	0	0	108	0	0	0	0	0 0
Finished Aviation Gasoline	9,'c	<b>o</b> (	0 1	184	12	0	12,352	239	1,050	11,063	298	0	· c	•	0 0
Naohtha-Twe let Fiel	<b>-</b> 5	<b>-</b>	0 1	0	0	0	181	0	82	98	8	0	0	) C	o c
Kercene-Twe let Elel	3 5	٥ ;	0	0	0	0	338	0	89	271	0	0	· C	· C	0 0
Kerosene	671	25	0 (	₽ '	0	0	2,655	119	906	1,630	178	0	0	c	0 0
Distillate Firel Oil	٥	ь (	0 1	0	0	0	76	0	32	4	10	0	0	· c	0
Residual Fuel Oil	44 7 c	<b>5</b> 6	۰ د	5	£.	0	3,522	652	630	2,240	511	0	0	· C	· C
Naphtha and Other Oile for Detro Egod 1100	<b>-</b>	<b>&gt;</b> (	<b>o</b> (	9	6	211	1,803	154	1,031	618	0	0	0	C	) C
Special Nanhthas	0	<b>ء</b> د	<b>&gt;</b> (	o (	0	0	R	0	0	ន	ø	0	Ф	0	· c
Libricants	<b>o</b> 6	<b>&gt;</b> (	<b>)</b>	₽ į	0	0	327	32	158	137	197	72	0	0	· C
Waxes	<b>-</b>	<b>4</b>	<b>o</b> (	37	2	o	751	0	561	190	340	O	0	· c	· C
Asphalt and Road Oil	<b>-</b>	<b>&gt;</b>	<b>&gt;</b> 0	0 ;	o .	0	0	0	0	0	0	0	0	0	· c
Miscellaneous Products	<b>-</b> 6	၁ ဗ	<b>O</b> (	86	0	0	166	0	0	166	371	0	0	¢	· c
***************************************	9	₹	0	9	සි	0	184	თ	98	11	156	0	0	0	4.
Total	2,486	279	0	451	148	2	23 117	1 205	7004	070 04		ţ		i i	!
t					?	;	-	205.	† 2 2	0/0,0	4,0,1	2	2,192	0	18,809
Source: See Explanatory Notes on Data Collection and Estin	timation.														

Table 24. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge Between PAD Districts, November 1983 (Thousand Barrels)

Receipts   Ship-   Net   Into   Into   Into   Into   Into   Into   Into   PADD   PAD	Receipts into PADD II	Ship- Net from PADD II PADD II PADD II 10,765 28,171 2 408 500 1,201 0 3,243 3,549	Receip into PADD 18,76 6,46 6,46 2,35,15 1,15	Ship- ments from PADD III 2,383 400 1,100 1,100 1,8,531 2	Net Receipts PADD III 16,381 16,382 -398 99	Receipts into PADD IN	Ship- Its ments from PADD VI	Net ceipts ADD IV	PA Receipts into PADD V	PAD District V	>
Receipts   Ship-   Net into   Into	Receipts into PADD II			Ship- from from PADD III 2,383 114,227 400 1,100 1,100 1,100		Receipts into PADD IV	Ship- ments from PADD VI	Net Receipts PADD IV		Ship	
2,605 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	38,936 410 1,701 6,792 9 9 1,251	, a	4	, w ,	J "i	2,091 0 0 0 0 0	1	- 1	-	from	Net Receipts PADD V
Section	00-				-107,759 -398 99 -1	2,091 0 0 0 168			0		-20 056
115				1,100 1 8,531 2	867	0 0 891	3,283	-1,192	2,878		2.833
2,732 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				8,531 2	T	0 168	1.300	-1300	0 0	00	0
1ts 108 101 101 101 101 101 101 101 101 101	_			2	77	00	0	0	0	<b>&gt;</b> 0	00
16.94			0		150	0	2/2	- 20 20 20 20	00	0 0	0
		0	0	1,359	-1,359	00	0	0	0	٥٥	00
31,816 2,426 198 2,426 198 800 122 9,662 330 658 35		-	1,868	61,378	-59,510	1281	9	٥	0 ;	0	0
800 122 800 122 800 330 800 122 800 330		2,237 6,135	1,013	23,689	-22,676	645	739	0 6	9,00	0 0	1,649
		,350 0,342 0 115	822	37,689	-36,834	929	352	284	618	0	1,031
558 35	201	59 142	29	066	9 6	0 0	0 ;	0 ;	0	0	0
	2,255		66	•	-11,490	468	3, 4	4)[-	282	0	285
18,178 2,048 16	7 732	122 0 46	0		-669	9 0	ò °	<del>?</del> ~	£ c	0 0	165
0	-	332 -332	494	23,504	-23,010	174	389	-225	496	0	7 0 0 0
	(		5	200,	-1,742	0	0	0	211	0	211
Special Naphthas327 0 327	197	0 0	00	8 8	ဗု	Q	0	0	0	c	c
788 46	340		) C	9 60	-596	0	٥	٥	72	> c	2 5
0 0 0	0	30	ò	1,091	-1,024	0	0	0		0	ų c
264	371	98 273	o c	£37	20 0	0 (	0	0	0	0	<b>,</b> c
701 705	234		113	340	-227	> c	0 0	0 0	0 (	0	0
lotal All Products 89,073 8,521 80,552	40.906 10.765	65 30 141	000			,	•	>	>	5	4
	- 1	- 1	55,532 116,610 -91,378	9- 019,91	91,378	2,091	3,283	-1,192	2,878 2	21,001 -1	-18,123

Table 25. Production of Residual Fuel Oil By Sulfur Content, November 1983 (Thousand Barrels)

	6		-														
1.		TAU DISTRICT			PA	D District	=				DAN DA	Sietrice III		-	200	600	
Commodity		Appala-	Total	Appala-	Ind.,	Minn.	Okla.	ŀ	Texas		Ę	-	Mon		PAU Dist. IV	Dist. V	United
	Coast	II.		12	II. Ky.	Daks.	Mo.	l otal	Inland	Coast	Gulf	Ark.	Mexico	Total	Rocky Mt.	West Coast	States
0.00 to 0.30% Sulfur 0.31 to 1.00% Sulfur Greater Than 1.00% Sulfur Sulfur Shirter See England Mass.	2,725 551 1,973 201	151 45 0 106	2,876 596 1,973 307	98 0 177 115	1,426 79 384 963	262 0 0 262	309 96 122 91	2,095 175 489 1,431	612 14 489 109	6,405 317 1,474 4,614	3,484 248 796 2,440	256 76 115 65	63 0 57	10,820 661 2,874 7,285	338 79 98 161	9,325 880 2,575 5,870	25,454 2,391 8,009 15,054
Commence Cymercial (Voice on Data Collection and Estimat	CIION and	1 Estimati	ation.														

Table 26. Stocks of Residual Fuel Oil By Sulfur Content, November 1983 (Thousand Barrels)

Sources: See Explanatory Notes on Data Collection and Estimation.

— Not Applicable

Table 27. Movements of Residual Fuel Oil by Tanker and Barge Between PAD Districts, By Sulfur Content, November 1983 (Thousand Barrels)

		From 1 to		_	From II to				From III to	<b>⊒</b>				From V to	
Commodity	=	Ħ	>		Ħ	>	_	New	Æ E	Low	=	>	_	=	=
Residual Fuet Oil 0.00 to 0.30% Sulfur 0.31 to 1.00% Sulfur Greater Than 1.00% Sulfur Source: See Explanatory Notes on Data Collection	0 0 0	0 0 0 0 0 0 0 0	0000	9000	64 0 0 19	211 0 0 211	1,803 3 325 1,475	25 0 52 2 0 0 42 1	1,031 0 216 815	618 109 506	0000	0000	0000	0000	3000

Table 28. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, November 1983 (Thousand Barrels)

Country		Residu	al Fuel Oil	
Country	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
Arab OPEC				
Algeria				
lraq	1,405	635	0	2,040
Kuwait	0	0	ō	2,040
Lihva	0	0	513	513
Libya Qatar	0	0	0	0
Saudi Arabia	0	0	Ō	ŏ
United Arab Emirates	0	0	0	Õ
Subtotal Arab OPEC	519	0	Ō	519
Sacrotal Alab Of LO	1,923	635	513	3,072
Other OPEC				-,
Ecuador	^			
Gabon	0	0	192	192
Indonesia	0	0	0	0
Iran	0	26	124	150
Nigeria	0	0	0	0
Venezuela	0	0	0	ō
Subtotal Other OPEC	1,117	321	2,462	3,900
DEFICIE OF CO AMERICAN CONTRACTOR	1,117	347	2,778	4,242
Other				,,,
Angola				
Australia	0	0	0	0
Bahamas	0	0	0	Õ
Bolivia	1,306	188	0	1,494
Brazil	0	0	0	0
Brunei	334	0	0	334
Canada	0	0	0	Ó
Congo	160	257	255	672
Egypt	0	0	0	0
France	0	0	0	0
Ghana	0	0	0	0
Liberia	0	0	0	0
Malaysia	0	0	0	0
Mexico	Ö	0	0	0
Netherlands	(s)	0	473	473
Netherlands Antilles	• •	361	0	361
Norway	0	233	1,926	2,158
Oman	0	0	0	0
People's Republic of China	0	0	0	0
Peru	796	0	0	0
Puerto Rico	0	523	473	1,792
Homania	ŏ	0	0	0
Spain	0	0	0	. 0
Syria	0	178	0	178
Trinidad	Ö	0	0	0
Tunisia	0	0	320	320
United Kingdom	Ö	0	0	0
Virgin Islands	1,668	0	0	0
Yugoslavia	0	3,650	1,686	7,005
Zaire	0	0	0	0
Other Western Hemisphere	ŏ	0	0	0
Other Eastern Hemisphere	384	43 80	636	679
Subtotal Other	4,648	5,514	73 5 941	537
	.,	Upra	5,841	16,003
tal Imports	7,689	6,496	9,132	23,317

(s) Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 29. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, November 1983 (Thousand Barrels)

		Residus	Residual Fuel Oil	
State	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
PAD District	6 920	1,000		
Connecticut	2	1386	8,109	20,946
Delaware	<b>.</b>	390	0	390
Florida	<b>o</b> (	0	187	187
Georgia	0 (	763	233	266
Maine	0	0	49	40
Mayland	0	188	296	9.50
Massashinath	0	105	162	267
Now Londonia	191	361	1.251	700
Men family still a	0	0	210	20,0
New Jersey	761	774	0.00	877
New York	5,639	2 2 2 1 7	000	2,114
Pennsylvania	320	- 17 7	3,035	11,491
	3	n '	263	1,702
	<b>o</b> c	<b>5</b> (	20	22
Vermont	<b>5</b> (	0	124	124
Viroinia	on (	0	0	σ
***************************************	0	0	290	290
PAD District II	131	,		
Illinois		0	96	346
Michigan	9 (	200	0	118
Minnesota	B !	0	51	130
Morth Datota	15	0	21	8 %
Missonia	<b>y</b>	0	56	26
**************************************	35	0	0	3 6
			•	3
	620	355	513	1 487
Total	205	34	c	200
I EXAS	415	321	513	1.249
PAD District IV	<del>,</del>	•	!	!
Montana	- '	5	17	28
	E	0	17	28
PAD District V	7	106	500	i
California	<b>,</b>	3	766	609
Hawaii		> (1	200	201
Washington	<b>o</b> (	901	197	302
	so.	0	0	9
All PAD Districts	7 689	307 3	1	
	2006	06+10	9.132	25 541

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

## Glossary

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## Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH-(CH)n-OH. Alcohol includes methanol and ethanol.

**Alkylation.** A refinery process for chemically combining Isoparaffin with olefin hydrocarbons. The product, alkylate, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

Deg API = 
$$\frac{141.5}{\text{sp gr 60F/60F}}$$
 - 131.5

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene.

Asphait. A dark-brown-to-black cement-like material, containing bitumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphait as well as the following finished products: cements, fluxes, the asphait content of emuisions (exclusive of water), and petroleum distiliates blended with asphait to make cutback asphalts. The conversion factor for asphalt is 5.5 barrels of 42 U.S. gallons per short ton.

**ASTM.** The acronym for the American Society for Testing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation gasoline.

Aviation Gasoline, Finished. All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

**Barrel.** A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphalt and wax to barrels are given in the definitions for these products.

Barrels per Calendar Day. The maximum number of barrels of input that can be processed in a twenty-four hour period after making allowances for the following ilmitations: downstream limitations, environmental constraints, types and grades of inputs, planned and unplanned downtime, and types and grades of products.

Barrels Per Stream Day. The amount a unit can process running at full capacity under optimal crude and product slate conditions.

**Bi-metallic.** A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of two metals (e.g., platinum, rhenium).

Butane. A normally gaseous paraffinic hydrocarbon, C4H10. It is extracted from natural gas or refinery gas streams. Butane is covered by ASTM Specification D1835 and Gas Processors Association Specification for commercial butane.

Isobutane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees F. This classification includes mixtures of gases that contain 80 percent liquid volume or more Isobutane. It is extracted from natural gas and refinery gas streams.

Normal Butane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that bolls at a temperature of 31.1 degrees F. This classification includes mixtures of gases that contain 80 percent or more normal butane.

Other Butanes. All butanes not included as normal butane or isobutane.

Butane-Propane Mixtures. Mixtures consisting exclusively of butane and propane that conform to ASTM Specification D1835 and Gas Processors Association Specification for commercial butane-propane mixtures. They are extracted from natural gas and refinery gas streams.

Butylene. An olefinic hydrocarbon, C4H8, recovered from refinery processes.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil.

Catalytic Hydrocracking. A refining process for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel and/or high grade fuel oil. Hydrocracking is an efficient, relatively low temperature process using hydrogen and a catalyst.

Catalytic Hydrotreating. A process for treating petroieum fractions (e.g., distillate fuel oil and residual fuel oil) and unfinished oils (e.g., naphthas, reformer feeds and heavy gas oil) in the presence of catalysts and substantial quantities of hydrogen to upgrade their quality.

Catalytic Reforming. The use of controlled heat and pressure with catalysts to effect the rearrangement of certain hydrocarbon molecules without altering their composition appreciably; the conversion of low-octane

gasoline fractions into higher octane stocks suitable for blending into finished gasoline; also the conversion of naphthas to obtain a more volatile product of higher octane number.

**Conventional.** A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of a metal and a non-metal (e.g., platinum, alumina).

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratified carbonaceous rocks are either solid or brittle and are highly combustible. Includes lignite, bituminous coal, and anthracite coal which conform to ASTM Specification D388.

Crude Distillation. The refining process of separating crude oil components by heating and subsequent condensing of the fractions by cooling.

Crude Oil (Including Lease Condensate). A mixture of hydrocarbons that existed in Ilquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite and oil shale. Drip gas is also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable. Crude oil is considered as either domestic or foreign according to the following:

**Domestic.** Crude oil produced in the United States or from its outer continental shelf as defined in 43 U.S.C. 1331.

Foreign. Crude oil produced outside the United States.

**Delayed Coking.** A process to produce low Conradson carbon gas for catalytic cracking feedstock and for gasoline.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on-and-off-highway diesel engine fuel (including rallroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2, and No. 4 diesel fuel.

No. 1 Fuel Oil. A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D396 specifies for this grade maximum distillation temperatures of 420 degrees F. at the 10-percent point and 550 degrees F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees F.

No. 2 Fuel Oil. A distillate fuel oil for use in atomizingtype burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D396 specifies for this grade distillation temperatures at the 90-percent point between 540 degrees and 640 degrees F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Olls. Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D975:

No. 1-D. A volatile distillate fuel oil with a boiling range between 300-575 degrees F. and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specifications D975.

No. 2-D. A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees F, for use in high-speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D975.

No. 4 Fuel Oil. A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees F. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D975.

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asla, Africa, and Australia. The Hawalian Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous paraffinic compound (C2H6) extracted from natural gas and refinery gas streams. "Ethane" includes any products containing 90 percent liquid volume or more ethane.

Ethane-Propane Mixtures. Mixtures of ethane and propane in which neither component is 90 percent or more of the liquid volume. It is extracted from natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, (C2H4) recovered from refinery or petrochemical processes.

Field Production. Represents crude oil production on leases, natural gas ilquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

**Fluid Coking.** A thermal process utilizing the fluidizedsolids technique for continuous conversion of heavy, low-grade oils into lighter products.

Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation or motor gasoline.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. Derives its name from having originally been used in the manufacture of illuminating gas. Now supplies distillate-type fuel oils and diesel fuel, also cracked to produce gasoline.

Imported Crude Oil Burned as Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sand oil, glisonite, and oil shale.

isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butane into isobutane, an alkylation process feedstock, and normal pentane and hexane into isopentane and isohexane, high-octane gasoline components.

Kerosene. A petroleum distillate that bolls at a temperature between 300-550 degrees F., that has a flash point higher than 100 degrees F. by ASTM Method D56, that has a gravity range from 40-46 degrees API, and that has a burning point in the range of 150-175 degrees F. Included are the two classifications recognized by ASTM D-3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees F. Kerosene Is used in space heaters, cook stoves, and water heaters and is suitable for use as an illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7 degrees API, a 10 percent distillation temperature of 400 degrees F. It is covered by ASTM Specification D1655 and Military Specifications MIL-T-5624L (Grades JP-5 and JP-8). A relatively low-freezing point distillate of the kerosene type; it is used primarily for commercial turbojet and turboprop alroraft engines.

Lease Condensate. A natural gas Ilquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Liquefled Petroleum Gases (LPG). Propane, propylene, butanes, butylene, butane-propane mixtures, ethane-propane mixtures, and isobutane produced at refinerles or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Liquefied Refinery Gases (LRG). Liquefled petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the ilquid state. The reported categories are ethane and/or ethylene, propane and/or propylene, butane and/or butylene, butane-propane mixtures, and isobutane. Excludes still gases used for chemical or rubber manufacture which are reported as a petrochemical feedstock and also excludes liquefied gases ready for blending into gasoline which are reported as gasoline blending components. Liquefled refinery gases are reported for use as petrochemical feedstocks or other uses.

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Lubricants includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. The three categories include Bright Stock, Neutral, and Other.

**Bright Stock.** A refined, high viscosity lubricating oil base stock that is usually made from residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.

**Neutral.** A distillate lubricating oil base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils.

Middle Distillates. A general classification that includes distillate fuel oil and kerosene.

Miscellaneous Products. Includes all finished products not classified elsewhere, e.g., petrolatum, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, speciality oils and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline. Pool gasoline is included in this category.

Motor Gasoline, Finished. A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D439 or Federal Specification VV-G-1690B, Include a boiling range of 122 degrees to 158 degrees F. at the 10-percent point to 365 degrees to 374 degrees F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psl. Motor gasoline includes finished leaded gasoline, finished unleaded gasoline, and gasohoi. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Leaded Gasoline. Contains more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency walver provisions. Premium and regular grades are included, depending on the octane rating. Includes leaded gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Unleaded Gasoline. Contains not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating. Includes unleaded gasohol. Blend stock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Gasohol. A biend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol.

Motor Gasoline, Total. Includes finished leaded motor gasoline, finished unleaded motor gasoline, motor gasoline blending components, and gasohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha bolling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

**Natural Gas.** A mixture of hydrocarbons and small quantitles of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, butane, natural gasoline, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials, and are classified as follows: Ethane, propane, ethane-propane mix, isobutane, butane, butane-propane mix, isopentane, natural gasoline, plant condensate, unfractionated stream, and other products from natural gas processing plants (i.e., products meeting the standards of finished petroleum products produced at natural gas processing plants, such as finished

motor gasoline, tinished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, C5H12, obtained by fractionation of natural gasoline or isomerization of normal pentane.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Operable Distillation Capacity. The maximum amount of Input that can be processed by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and grades of inputs, limitations of downstream facilities, scheduled and unscheduled downtimes, and environmental constraints. Includes any shutdown capacity that could be placed in operation within 90 days.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes hydrogen, coal tar derivatives, gilsonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are Naphtha-less than 400 degrees F. end-point and Other oils-over 400 degrees F. end-point.

Naphtha-Less Than 400 Degrees F. End-Point. A naphtha with an end point of less than 400 degrees F. that Is reported as used as a petrochemical feed-stock.

Other Oils-Over 400 Degrees F. End-Point. Oils with an end point over 400 degrees F. that is reported as used as a petrochemical feedstock.

**Petroleum Coke.** A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is five barrels of 42 U.S. gallons per short ton.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This green coke may be sold or further purified by calcining.

Catalyst Coke. In many catalytic operations (i.e., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, natural gasoline and isopentane, plant condensate, unfractionated stream, ilquefied petroleum gases, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha less than 400° F. end-point, other oils-over 400° F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

**Petroleum Refinery.** An installation that manufactures finished petroleum products from crude oll, unfinished olls, natural gas ilquids, other hydrocarbons, and alcohol.

**Plant Condensate.** One of the natural gas Ilquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas Inlet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks excludes stocks of foreign origin that are held in bonded warehouse storage.

**Propane.** A normally gaseous paraffinic compound, C3H8, which includes all products covered by NGPA Specification for commercial and HD-5 propane and ASTM Specification D1835. It is used primarily as a fuel and as a petrochemical feedstock.

**Propylene.** An olefinic hydrocarbon, C3H6, recovered from refinery or petrochemical processes.

Residual Fuel Oil. The topped crude of refinery operation which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes. Includes imported crude oil to be burned as a fuel.

**Road Oil.** Any heavy petroleum oil, including residual asphaltic oil used as a dust pallative and surface treatment on roads and highways. It is generally produced in

six grades from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point and have a boiling range of 90 degrees to 220 degrees F. Special naphthas includes all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

**Steam (Purchased).** Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refineries by distillation cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, butane, butylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and/or refinery fuel use.

Petrochemical Feedstock Use. Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadiene, etc., are considered petrochemical products; therefore, only their feed-stock equivalents are included.

Fuel Use. All other still gas.

Strategic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Federal Government for use during periods of major supply interruption.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those included in plant condensate. This product is extracted from natural gas.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique, with its relatively low temperatures, prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary

distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-oiling. It is lightcolored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42gallon barrel.

Microcrystalline Wax. Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

Penetration at 77 degrees F. (D-1321)-60 maximum. Viscosity at 210 degrees F. in Saybolt Universal Sec-

onds (SUS) (D-88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oil content (D-721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored paraffln wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D-721)-0.5 percent maximum. Other + 20 color, Saybolt minimum.

Crystalline-Other Wax. A paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximum. Oll Content (D-721)-0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that Includes North and South America and the surrounding waters.

# Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts:

### PAD District I

East Coast: District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

### PAD District II

Appalachian #2: The following countles of the State of Ohlo: Erle, Huron, Crawford, Marion, Delaware, Frank-IIn, Pickaway, Ross, Pike, Scioto, and all countles east thereof.

Indiana—Illinois—Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohio not Included in the Appalachian District.

Minnesota—Wisconsin—North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma—Kansas—Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

### **PAD District III**

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following countles of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Guit Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following countles of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following countles of the State of Alabama: Mobile and Baldwin.

North Louisiana—Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

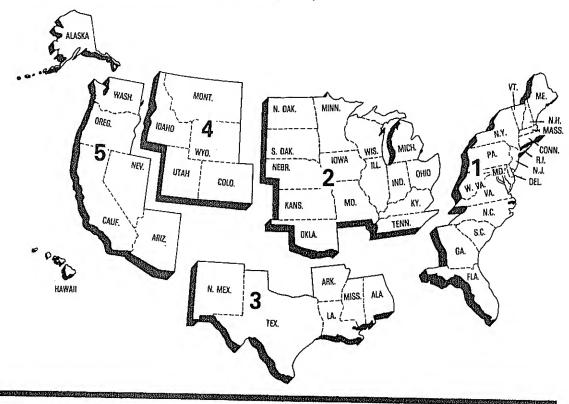
### **PAD District IV**

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

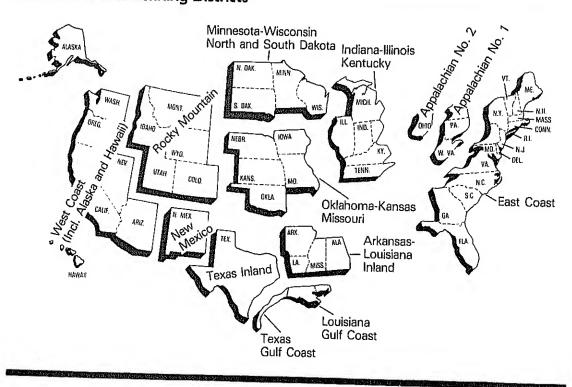
### PAD District V

West Coast: The States of Washington, Oregon, Callfornia, Nevada, Arizona, Alaska, and Hawali.

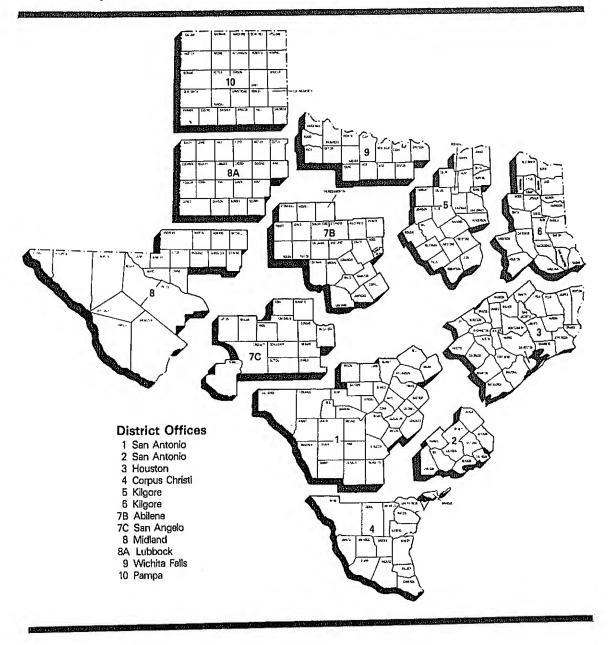
### Petroleum Administration for Defense (PAD) Districts



### **Bureau of Mines Refining Districts**



### District Map Oil and Gas Division Railroad Commission of Texas





# Explanatory Notes



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### **Background**

Inning In January 1983, the Energy Information Adjetration (EIA) unified its petroleum supply data colon activities into the Petroleum Supply Reporting of (PSRS). The PSRS represents a family of data action survey forms, data processing systems and ication systems that have been consolidated to ove comparability and consistency throughout orimary focus of the consolidation has been to rethe weekly and monthly survey reporting forms to the consistency in form layout, preparation instruction, and definitions. As a result, a new set of survey were implemented in January 1983. The followare the new form numbers and their corresponding pocessor forms:

∣ew Form Number	Name	Old Form Number
A-800	Weekly Refinery Report	EIA-161
A-801	Weekly Bulk Termi- nal Report	EIA-162
A-802	Weekly Product Pipe- line Report	EIA-163
A-803	Weekly Crude Oil	EIA-164
A-804	Stocks Report Weekly Imports Re-	EIA-165
A-805	port Weekly Shipments- from Puerto Rico to the United States Report	
A-810	Monthly Refinery Report	EIA-87
A-811	Monthly Bulk Termi- nal Report	EIA-88
A-812	Monthly Product Pipeline Report	EIA-89
A-813	Monthly Crude Oll Report	EIA-90
₹A-60	Monthly Imports Report	ERA-60
A-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133- M-0
A-816	Monthly Natural Gas Liquids Report	EIA-64
A-817	Monthly Tanker and Barge Movement Report	EIA-170

In SEIA-800 through 805 comprise the Weekly Petron Supply Reporting System (WPSRS). This system esigned to collect basic refinery operations and fluct stock data for major products on a weekly babata from the WPSRS are published in the Weekly foleum Status Report (WPSR) and are also used to fulate the preliminary statistics in the "Summary fistics" section of the Petroleum Supply Monthly

(PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms EIA-810-813, 815-817 and ERA-60 comprise the Monthly Petroleum Supply Reporting System (MPSRS). These surveys collect detailed refinery operations data, reflnery, bulk terminal and plpeline stocks data, crude oil and petroleum product imports data and movements of petroleum products and crude oil between PAD Districts data. These surveys are the primary source of data for the "Summary Statistics" and "Detailed Statistics" sections of the *PSM*. A description of MPSRS survey forms follows in Note 1.2.

Data are also obtained in magnetic tape form from the Bureau of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the preparation of the *PSM*. A description of the Census data follows in Note 1.3.

# Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

### **Background**

The EIA first began publishing weekly petroleum supply statistics in April 1979 in response to the Iranian oil crisis. Initially, the published data were taken from the American Petroleum Institute (API) Weekly Statistical Bulletin. However, in January 1980 the EIA began to publish weekly statistics from its own surveys, with the exception of imports statistics which the EIA did not begin collecting until June 1980.

The weekly surveys collect data comparable to those collected on a monthly basis. Selected petroleum companies report weekly data to the EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. On Form EIA-805, a company shipping unfinished oils and finished petroleum products into the United States from Puerto Rico reports each shipment. Current weekly data and the most recent monthly data are used to estimate the totals that are published in the Weekly Petroleum Status Report.

### Sample Frame

The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys. Sampled companies report data only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: Based on the EIA-810 universe, which includes all petroleum refineries in the United States and

its territories, Industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and plants that produce finished motor gasoline through mechanical blending. The selected sample size is 215.

**EIA-801:** Based on the EIA-811 universe, which includes all bulk terminal facilities in the United States and its territories that have either a total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The selected sample size is 93.

EIA-802: Based on the EIA-812 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that transport only natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies that transport products covered in the weekly survey are included. The selected sample size is 65.

EIA-803: Based on the EIA-813 universe, which consists of all companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

**EIA-804:** Based on the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico. The selected sample size is 65.

**EIA-805:** Based on the EIA-815 universe, which includes all shippers of unfinished oils and petroleum products into the United States from Puerto Rico. Four companies report.

### Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the EIA-802, which uses the monthly universe in its entirety. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous 12-month period. Companies are chosen for the sampling, beginning with the largest and adding companies until the total sample covers 90 percent of the total for the previous time period for each product published in the Weekly Petroleum Status Report.

### **Collection Methods**

Data are collected by mail, mallgram, telephone, Telex, and Telefax on a weekly basis. The report period closes each Friday at 7 a.m. All canvassed firms and terminal operations companies must file by 5 p.m. on the following Monday.

### **Estimation and Imputation**

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month  $(M_t)$  is divided by the amount reported by the sample of companies for the most recent month  $(M_s)$ . The result is multiplied by the amount reported by the sample of companies for the current week  $(W_s)$ . The answer,  $W_t$ , is an estimate of the amount that would have been reported by all companies for the current week if all companies reported each week.

$$W_t = \frac{M_t}{M_s} (W_s)$$

This procedure is used to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a companyby-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unlicensed products because of coverage differences between the monthly imports data and Census data.

Explicit Imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

### **Response Rates**

The response rate for the published estimates is usually between 95 and 98 percent.

# Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

### Background

The MPSRS was implemented in January 1983 as the result of an extensive effort to integrate the collection and processing of petroleum supply data that have been collected on other survey forms for many years. The collection of monthly petroleum supply statistics began as early as 1918 when the Bureau of Mines (BOM) began collecting data on refinery operations and crude oil stocks and movements. The collection systems

were further expanded to include natural gas plant liquids production and storage in 1925, imports of crude oil and petroleum products and storage and movements of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in 1964. Since their inception, each survey has undergone numerous changes, but the MPSRS is the first effort to make them all consistent and comparable.

### Respondent Frame

EIA-810: All petroleum refineries and plants that produce finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawailan Foreign Trade Zone, and Guam. Approximately 313 respondents report on the EIA-810.

EIA-811: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin Islands that (a) have a total bulk storage capacity of 50,000 barreis or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regardless of ownership of the material. Approximately 328 respondents report on the EIA-811.

**EIA-812:** All products pipeline companies that carry petroleum products (including interstate, Intrastate and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 94 respondents report on the EIA-812.

EIA-813: All companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

**EIA-815:** All licensed importers and importers of record shipping petroleum products from Puerto Rico into the 50 States and the District of Columbia.

import data from the ERA-60 and EIA-815 are integrated into the import statistics reported in the *PSM*.

**EIA-816:** All operators of facilities designed to extract liquid hydrocarbons from natural gas stream (natural gas processing plants) or to separate a hydrocarbon stream into its component products, i.e., propane, butane, natural gasoline, etc. (fractionators). Approximately 990 respondents report on the EIA-816.

**EIA-817:** All known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are about 50 respondents.

ERA-60: All licensed importers and importers of record importing crude oil and petroleum products into the

United States and Puerto Rico. The respondent universe consisted of approximately 1,100 firms as of July 31, 1982. However, only a selected 250 importers must report each month regardless of import activity. All others must report only for a month in which they actually had imports. The respondent universe for this survey is updated whenever an import license is granted by the Office of Oll Imports of the ERA.

EIA utilizes a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review industry publications such as the Oil and Gas Journal and LP Gas Almanac for Information on facilities or companies going into operation or closing down. These are augmented by articles in newspapers, letters from respondents indicating changes in status and information received from survey systems operated by other offices.

Periodically an extensive survey study is conducted to completely refresh the frames. This involves consolidating information from every known source including State agencies, federal agencies (e.g., EPA, Corps of Engineers, Census Bureau, etc.), and private industry directories. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

### **Collection Methods**

The data for all of the MPSRS surveys are collected monthly. Completed forms are required to be postmarked by the 20th day following the end of the report month, with the exception of the EIA-815 and ERA-60 which are due 15 work days following the end of the report month. Telephone follow-up calls are made to non-respondents prior to the publication deadline, for their data. An automated mailing list is maintained and is used to monitor receipt of the forms.

### **Imputing Missing Data**

imputation is performed only for nonresponding companies that submitted reports the previous month. For such companies, previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. In the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by submission of actual data. Data for nonrespondents on the EIA-815 and 817, and ERA-60 are not imputed.

### Response Rates

As of the filling deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 per-

cent. The response rate for the EIA-816 is over 85 percent and for the EIA-817 it is 98 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Names of companies that fail to file for 2 consecutive months are forwarded for further noncompliance action.

In July 1982, the ERA-60 survey had a response rate of 98 percent by the filing deadline. The universe was 1,100 firms at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard follow-up of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. In addition, response is cross-checked with response on the Petroleum Licensing Decrementation System (PLDS), a listing of each month's importers. The response rate is generally 98 to 99 percent by the time the data are first published.

# Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

### Background

Each month the EIA purchases magnetic tapes of aggregated import and export statistics from the Bureau of the Census. These data provide the only source of export statistics and are used to augment the import data collected by the EIA. Export statistics and import data from the Census tapes on liquefied petroleum gases, bonded ships bunkers and military offshore use are published in the *PSM*.

### Import Statistics (IM-145)

### Coverage

The import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- Merchandise In-transit through the United States, when documented with Customs as an in-transit movement.
- 2. Shipments from anywhere to U.S. possessions and shipments from U.S. possessions to the United States. (U.S. possessions include Puerto Rico, the Virgln Islands, Guam, and American Samoa.)
- 3. U.S. merchandise that was held in foreign countries by the U.S. Armed Forces and is returned to the United States for the use of the Armed Forces.

### Source of Import Information

The official U.S. Import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7506).

Imported petroleum is reported as *Imports for Consumption*. Imports for consumption are a combination of entries for immediate consumption and withdrawals from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

### Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

### Export Statistics (EM-522 and EM-594)

### Coverage

The export statistics reflect both government and non-government exports of domestic and foreign merchandise from the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- 2. Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- 3. Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

### Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Exporters are required to file Shipper's Export Declarations with Custom's officials. The only exceptions are those exporters who have been authorized to submit data directly to the Bureau of Census on magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations.

from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthly values are Indiana, Kentucky, Missouri, Arkansas, Utah, New York, Ohio, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information on crude oil production for the most recent month for which COPS values are available. In order to present more timely crude oil production values, the EIA's Dallas Field Office prepares a series of State level estimates which are based on historical production patterns and are summed to obtain the monthly crude oil production values shown in the summary statistics of this publication.

The individual State level estimates are either exponential curve fitted projections based on recent data or are constant level projections based on the average production rate during a recent time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade association, or an individual field operator.

### Note 4: Disposition

The components of petroleum disposition are crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Crude Oil Losses Is the sum of crude oil losses at refineries. Crude oil losses at refineries are reported on Form EIA-810, Refinery Report.

Refinery Inputs of crude oil, natural gas plant liquids, and other liquids are reported monthly on survey Form EiA-810, Monthly Refinery Report. Published inputs of unfinished oils and of motor and aviation gasoline blending components equal refinery input minus refinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production.

finery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) data were misreported or reported late, (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of interdistrict movements was incomplete.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipelines as fuel oil. These data are reported on EIA-813, *Monthly Crude Oil Report*. Prior to January 1983, crude oil burned on leases and by pipelines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these products.

### Note 5: Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-810, Monthly Refinery Report, and on Form EIA-813, Monthly Crude Oil Report. Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form EIA-800, Weekly Refinery Report, and on Form EIA-803, Weekly Crude Oil Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816, Monthly Natural Gas Liquids Report, Form EIA-811, Monthly Bulk Terminal Report, and on Form EIA-812, Monthly Product Pipeline Report. Primary stocks of petroleum products do not include either secondary stocks held by dealers and jobbers or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-800, Weekly Refinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802, Weekly Crude Oil Stocks Report. For survey descriptions and other details, see Explanatory Notes 1.1 · 1.3.

### Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, motor gasoline, distillate fuel oil, residual fuel oil, lique fled petroleum gases, and other products provide the user with recent data as well as a summary of data from January through December or from July through June for the most recent 3-year period. This summary takes the form of an average range that includes seasonal variation determined from a longer time period. The

average range represents the historical pattern; it is not a forecast.

These curves are updated semiannually (on Arpll 1 and October 1), by basing the average ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive. The serles is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels. The Intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. For crude oil stocks, the derived seasonal factors are very small relative to crude oil stock levels. Therefore, the seasonal factors for distillate fuel oil, residual fuel oil, liquefied petroleum gases and other products are derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors are based on monthly data from 1975, 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973, 1974 and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the Illustrated seasonal patterns for crude oil, distillate fuel oil, residual fuel oil, liquefied petroleum gases and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

In some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3-year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the average range is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

### Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form EIA-817, Monthly Tanker and Barge Movement Report, and on Form EIA-813, Monthly Crude Oil Report. Petroleum product movements are reported on Forms EIA-817 and EIA-812, Monthly Product Pipeline Report. Net receipts is the difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge, For survey descriptions and other detail, see Explanatory Note 1.2.

### Note 8: Preliminary Monthly Statistics

Weekly data (Forms EIA-800, 801, 802, 803, and 804) are used to estimate the most recent monthly values for the Summary Statistics section. Since some of the weekly reporting periods overlap two adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refineries and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel oil, and residual fuel oil) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the two weeks. The daily stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of the earlier of the two weeks (the week that covers the last day of the month of interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3.

### Note 9: Notes on Tables

Note 9.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detalled Statistics, except where noted.

• Crude Oil and Petroleum Products Stock Withdrawal (+) or Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.

- Natural Gas Plant Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousand barrels in Table 2.

Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.

- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unaccounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- Grude iosses and Product Supplied appear as labeled in Table 4.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousand barrels in Table 1.
- Total Crude oil Ending Stocks appear in thousand barreis in Table 2.
- Total Imports appear in Table 4.

Note 9.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending Stocks appear in thousand barrels in Table
   2.

Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.

Ending Stocks appear in thousand barrels in Table

Note 9.5 Liquefied Petroleum Gases Supply and Disposition statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stocks Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousand barrels in Table

Note 9.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.

- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousand barrels.

### Note 9.7 Table 1. U.S. Petroleum Balance

- Lines (1) through (3): Crude oil (including lease condensate) production for *Alaska*, *Lower 48 States*, and *Total U.S.* are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48 States.
- Line (5): SPR Imports are reported on Survey Form ERA-60.
- Line (12): Total Other Sources equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil minus crude losses in Table 2.
- Line (14): Natural gas plant liquids (NGPL) *Production* equals field production of natural gas liquids (NGL) plus field production of finished petroleum products in Table 2.
- Line (15): NGPL Imports equals the sum of the im-

ports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.

- Line (16): NGPL Stock Withdrawal (+) or Addition
   (-) is equal to the sum of stock withdrawal (+) or addition
   (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) equals the sum of lines (14), (15), and (16).
- Line (18): Unfinished oils and gasoline blending components Stock Withdrawal (+) or Addition (-) equals stock Withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.
- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2.
- Line (21): Refinery Processing Gain is a balancing item equal to total refinery production minus total refinery input in Table 2.
- Line (23): Total Other Liquids equals the sum of lines (18) through (22).
- Line (24): Total Production of Products equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil product supplied in Table 2.
- Line (25): Gross Imports of Refined Products equals imports of LPG plus imports of finished petroleum products in Table 2.
- Line (26): Exports of Refined Products equals exports of LPG plus exports of finished petroleum products In Table 2.
- Line (27): Net Imports of Refined Products equals the difference between lines (25) and (26).
- Line (28): Total New Supply of Products equals crude oil input to refinerles plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation

gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroleum products; minus exports of LPG and finished petroleum products in Table 2.

- Line (29): Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table 2.
- Lines (31) through (35) equal the respective products supplied in Table 2.
- Line (36): Other Products Supplied equals the sum of natural gasoline and isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock use, other oils > 400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, unfinished oils, motor gasoline blending components, aviation gasoline blending components and miscellaneous products supplied in Tabie 2.
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of Crude Oil and Lease Condensate (Excluding SPR) and stocks held by the Strategic Petroleum Reserve, equals ending stocks of crude oil in Table 2. SPR stocks are reported on Form EIA-813.
- Line (43): stocks of Refined Products, equals the sum of LPG and finished petroleum product stocks in Table 2.

### Note 10: New Stock Basis

In January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported and stock withdrawal calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:

- Crude Oil and Petroleum Products: 1974—1,121; 1980—1,420; and 1982—1,462.
- Motor Gasoline: 1974—225; 1980—263; 1982—244 (Total) and 203 (Finished).
- Distillate Fuel Oil: 1974—224; 1980—205; and 1982—186,

- Residual Fuel Oil: 1974—75; 1980—91; and 1982—68.
- Liquefied Petroleum Gases: 1974—113; 1980—128; and 1982—103.
- Other Petroleum Products: 1974—220; 1980—249; and 1982—259.
- Stock withdrawal calculations beginning in 1975, 1981, 1983 were made using new basis stock levels.

### Note 11:

Stocks of Alaskan crude oil in transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock withdrawal calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Other Primary).

# Note 12: Changes in Petroleum Industry Reporting

Petroleum statistics contained in this report for all years through 1980 were developed using definitions, concepts, reporting procedures and aggregation methods that are consistent with those developed by the U.S. Bureau of Mines. Research conducted by the Energy information Administration in 1979 and 1980 indicated that changes had occurred in the petroleum industry that were not being adequately reflected in EiA's reporting systems.

EiA reporting forms, definitions, and procedures were modified beginning in January 1981 to describe industry, operations more accurately. Unfortunately, empirical information is not available to precisely measure the data shortcomings throughout 1980. However, estimates of the magnitudes of differences in the major

data series are described below to form a basis for comparing 1979, 1980, and 1981 data.

### **Motor Gasoline**

Prior to 1979, the EIA product-supplied series for motor gasoline was consistently about 2 percent lower than the Federal Highway Administration (FHWA) gasolinesales data series, which is derived from State tax receipts. This difference increased to about 4 percent in 1979 and 5 percent in 1980. There are two primary causes for this growing difference. First, refinery operations, particularly the flows of unfinished oils and the redesignation of some finished products, were not being accurately described on the EIA survey forms. Second, a large amount of gasoline was being produced away from refineries at "downstream blending stations" to take advantage of provisions in regulations governing the amount of lead that could be added. These blending stations were not reporting gasoline production to the EIA until the data system was changed in January 1981.

Quantitative estimates of the magnitude of the difference—in EIA's gasoline product supplied data in 1979 and 1980 have been made by the EIA and the American Petroleum institute (API). The following table provides 1979 and 1980 data as published in the Petroleum Statement Annual, as well as EIA and API estimates of "recast" motor gasoline product supplied. EIA recast estimates were based upon preliminary monthly information in the Monthly Petroleum Statement. The ranges displayed in the EIA column reflect uncertainty in the estimates. Also shown are the FHWA motor gasoline sales statistics for those years. EIA has recently published a study of the quality of these FHWA data.

Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Error Profile of the Motor Fuel Taxation Data used to Establish and Monitor State Emergency Conservation Targets (Washington, D.C: December, 1981).

# Finished Motor Gasoline Product Supplied on Old and New Basis (Thousand Barrels per Day)

	1979				1980			
	EIA Reported	API Recast	EIA Recast	FHWA1	EIA Reported	API Recast	EIA Recast	FHWA
Jan	6,830	7,230	7,084- 7,246	6,984	6,323	6,789	6,630- 6,791	6,672
Feb	7,254	7,496	7,389- 7,568	7,538	6,596	6,983	6,831- 7,003	6,830
Mar	7,229	7,414	7,301- 7,463	7,316	6,406	6,753	6,607- 6,768	6,713
Apr	7,055	7,300	7,187- 7,353	7,375	6,800	7,014	6,886- 7,052	6,981
May	7,213	7,429	7,313- 7,475	7,428	6,729	6,954	6,823- 6,984	7,044
Jun	7,191	7,483	7,350- 7,516	7,441	6,657	6,966	6,824- 6,991	7,049
Jul	6,902	7,241	7,105- 7,266	7,299	6,743	6,973	6,960	7,132
Aug	7,330	7,546	7,426- 7,588	7,619	6,648	6,841	6,828	7,090
Sep	6,881	7,122	7,016- 7,262	7,232	6,510	6,692	6,962	6 <b>,6</b> 85
Nov	6,791	7,068	6,956 7,122	7,142	6,234	6,507	6,516	6,951
Dec	6,730	7,106	6,966- 7,127	7,064	6,632	6,948	6,936	6,993
Average	7,034	7,302	7,183- 7,347	7,309	6,579	6,882	6,806- 6,889	6,925

<sup>&</sup>lt;sup>1</sup>FHWA gasoline statistics published in their 1979 Table MF-33G, 08-06-80, contain aviation gasoline as well as motor gasoline. Only motor gasoline data are included in published 1980 data. Consequently, the 1979 data shown above were reduced by subtracting aviation gasoline product supplied quantities as published by EIA in the 1979 *Petroleum Statement Annual*. The 1980 FHWA data published in their 1980 Table MF-33GA, August 1981, did not require this adjustment.

### Distillate and Residual Fuel Oil

Distillate and residual fuel oil refinery production statistics through 1980 were adjusted to account for an imbalance between unfinished oil supply and disposition. The reported quantities of refinery inputs of unfinished oils typically exceed the available supply of unfinished oils. It has been assumed that this occurs when distillate and residual fuel oil produced by a refinery is shipped to another refinery, where it is treated as unfinished oil. This oil is then reprocessed rather than used or sold as distillate or residual fuel oil.

For many years (Including 1980), the difference between unfinished oil disposition and supply was subtracted from distillate and residual fuel oil production to adjust for this discrepancy. Two-thirds of the difference was applied to distillate, and one-third to residual fuel oil.

Beginning in January 1981 this adjustment was discontinued because there was not sufficient empirical evidence to support it. The following table presents distillate and residual fuel oil refinery production in 1980 as published (adjusted) and on the same basis as 1981 statistics are now being completed (unadjusted) to permit comparison between 1980 and 1981 data series. Adjusted distillate and residual fuel oil product supplied volumes differ from the unadjusted volumes by the same amounts as the adjusted and unadjusted production volumes.

# Adjusted and Unadjusted Refinery Production, and Unadjusted Product Supplied of Distillate and Residual Fuel Oils, by Month for 1979 and 1980 (Thousand Barrels Per Day)

		Distillate Fuel Oil				Residual Fuel Oil				
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff,	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied		
Jan.	3,043	3,108	65	4,646	1,912	1,946	34	3,594		
Feb.	2,888	2,945	57	4,869	1,792	1,822	30	3,625		
Mar.	3,019	3,026	7	3,671	1,719	1,723	4	3,243		
Apr.	2,945	2,978	32	3,048	1,639	1,656	17	2,524		
May	3,066	3,093	27	3,025	1,586	1,600	14	2,524		
Jun.	3,153	3,187	35	2,743	1,548	1,566	18	2,601		
Jul.	3,305	3,344	38	2,601	1,575	1,594	20			
Aug.	3,321	3,359	38	2,799	1,584	1,603	20	2,471		
Sep.	3,354	3,306	- 48	2,599	1,627	1,602		2,570		
Oct.	3,251	3,217	- 34	3,085	1,629		25	2,584		
Nov.	3,239	3,200	- 39	3,208	1,736	1,612	<b>–</b> 17	2,523		
Dec.	3,221	3,238	17	3,725	1,730	1,716 1,903	– 20 9	2,795 3,022		
Average	3,152	3,169	16	3,327	1,687	1,695	8	2,834		

### 1980

		Distillate Fuel Oil				Residual Fuel Oil			
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied	
Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov. Dec.	3,013 2,766 2,557 2,460 2,474 2,646 2,689 2,461 2,686 2,589 2,703 2,891	3,093 2,888 2,690 2,554 2,610 2,721 2,783 2,582 2,726 2,650 2,823 3,052	80 122 133 94 136 75 94 121 40 61 120 161	3,794 3,834 3,312 2,729 2,538 2,392 2,343 2,258 2,627 2,981 3,069 3,776	1,771 1,773 1,584 1,595 1,509 1,575 1,480 1,444 1,495 1,512 1,579 1,660	1,812 1,836 1,652 1,643 1,579 1,613 1,528 1,506 1,516 1,543 1,641 1,743	41 63 68 48 70 38 48 62 21 31 62	3,108 3,168 2,726 2,492 2,305 2,359 2,339 2,348 2,380 2,258 2,513	
Average	2,661	2,764	103	2,969	1,580	1,634	83 54	2,762 2,562	

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